MAY 19, 2015
TUESDAY
5:30 P.M.

AGENDA
SPECIAL COUNCIL MEETING
City Council Chambers, 2nd Floor
265 Main Street-Old Town, Maine

I. **CALL TO ORDER (Please turn off or silence cell phones)**

II. **FLAG SALUTE**

III. **ROLL CALL**

IV. Approval of the Minutes.

V. **PETITIONS, COMMUNICATIONS AND CITIZENS' REQUESTS**

VI. **REPORTS**

- A. **Council President**
- B. **Standing Committees (Finance, Public, Administrative & Economic Services; Landfill, Legislative, Sewer, Airport & Housing sub-committees)**
- C. **City Councilors**
- D. **City Attorney**
- E. **Special Committees**
- F. **School Board Liaison**
- G. **City Manager**

VII. **CONSENT AGENDA**

VIII. **PUBLIC HEARINGS AND SECOND READING OF ORDINANCES**

IX. **OLD BUSINESS**

X. NEW BUSINESS

1. The City Council will consider going into Executive Session for the purpose of consulting with the City attorney concerning the City's legal rights and obligations with respect to a pending property tax valuation appeal, with representatives of Expera Old Town, LLC to be present during a portion of the executive session.

Suggested motion: Resolved, the Old Town City Council hereby approves going into Executive Session pursuant to Title 1, M.R.S.A., §405(6)(E) for the purpose of consulting with the City attorney concerning the City's legal rights and obligations with respect to a pending litigation matter (property tax appeal), with representatives of Expera Old Town, LLC to be present during a portion of the executive session.

(Councilor May)

XI. ADJOURNMENT

MAY 20, 2015
6:30 P.M.

CITY OF OLD TOWN
PUBLIC SERVICES COMMITTEE
AGENDA

Old Town City Hall
Council Chambers, 2nd floor
265 Main Street, Old Town, Maine

1. **Call to Order** **(Please turn off or silent cell phones)**

2. **Residential property**

   The Committee will discuss residential property that is located next to the City's old Municipal Landfill.

3. **Water/Sewer Departments**

   The Committee will discuss combining the Water & Sewer Departments.

4. **Adjournment**

FUTURE AGENDA ITEMS
Special Projects

Note: The Public Services Committee is composed of Councilors May (Chair), McLeod, Roach and Council President Mahan.

LAW OFFICE OF DALE F. THISTLE
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Dale F. Thistle, Esq. email: dthistle@myfairpoint.net

William Mayo, Manager
City of Old Town
265 Main Street
Old Town, ME 04468

January 24, 2014

Re: Chellis Sanborn Property

Dear Mr. Mayo:

This letter is to offer to sell to the City of Old Town the Chellis Sanborn property adjacent to the now-closed Old Town Landfill.

The relevant history of the Old Town Landfill is well known to the citizens and elected officials of Old Town. A brief review indicates that the Landfill was opened sometime in the 1950's. Problems with the Landfill began soon after the "dump" became operational. Certainly, by the early 1960's complaints were voiced regarding the concerns citizens had of pollution and polluted groundwater escaping from the Landfill. Throughout the period of operation of the Landfill, Mr. and Mrs. Sanborn resided at their present location at 2001 Bennoch Road, closely adjacent to the Landfill. In 1983, perhaps thirty years after it opened, the Sanborn's had to have their hand-dug well replaced. In 1985, on refinancing their home, a new drilled well was put in. At approximately the same time the "dump" pre-closure program began. And, in 1993, the "dump" was closed. At least as early as 1993, water tests have been conducted on the Sanborn property's wells and faucets.

A report was produced October 29, 1993 of which the Sanborn's have but an incomplete copy, however, from those pages available it can be discerned that as of late October 1993 a Phase II Hydrogeologic Evaluation was performed and as a result the report states that "the depth of ash sludge disposed in this area is deeper than anticipated: at least 35' thick in some areas. In addition, a minimum of 15'of this material lies below the water table." Monitoring wells were installed for the study. All showed some influence of landfilling. "The wells nearest the neighbors, MW 102, show traces of VOC's and toxic metals....Low levels of arsenic are present in both the near-landfill wells and the Sanborn

well. The low gradient s in the area and the relief on the bedrock surface make flow prediction difficult....There is some potential for flow towards the domestic wells...It would be prudent to either provide an alternate water supply for the neighbors or to conduct additional evaluations of ground water flow and leachate transport in their vicinity." "The landfill has a documented impact on nearby ground water quality. Solid waste and sludge are saturated with ground water in the northern portion of the site.""Iron and manganese are present in the Sanborn well in combined concentrations exceeding the Secondary Drinking Water Levels." (Unknown source for document entitled Old Town Landfill Transmittal, October 29, 1993, Job # 1076. Enclosed as Exhibit "A".) In addition, an e-mail from Peter Nickerson to Roy Krout, SIR dated 9/13/94 states that "If the Dionne well is abandoned, the chance of contaminants being drawn into the Sanborn well will be increased. The degree of increased risk to the Sanborn well is probably impossible to quantify." Exhibit #1. Woodward and Curran, Environmental Services stated in 1995 "We propose that the City either establish a new well for the neighbors or that the contaminated property(ies) be purchased by the City. Both of these options are far more cost effective than options such as establishing a leachate system, primarily because of the difficulties caused by the waste below the groundwater table. Either of the recommended approaches will substantially reduce or eliminate the public health risk." Exhibit #2, Letter of Brent Bridges to Roy Krout, Maine DEP, February 15, 1995.

Remediation measures have been attempted by the City. We do not suggest that the City has failed to do anything at all to address the obvious need at the Sanborn residence. However, the City has failed to remediate the problem. The City Landfill leached contaminants into the ground water which subsequently poisoned the water wells on the Sanborn property. And the Sanborns are dealing with this problem twenty years later. Testing has been negligently conducted by various agencies and businesses on behalf of the City. There have been numerous gaps in monitoring and evaluating the chemicals leaching from the Landfill and contaminating the Sanborn's water supplies. Documented gaps, acknowledged by the City, occurred in 2003, 2004 and 2006.

The Maine Department of Environmental Protection (hereafter DEP) has been involved in the closure and remediation effort. In fact, letters were received from DEP stating that "your water does not appear to be contaminated from the Landfill **at this time**". (Emphasis added.) Note the careful qualification. :..."(i)t may be at risk and should be monitored. I hope the town will pursue responsibility for monitoring your water supply in conjunction with their efforts for landfill closure." Exhibit # 3, letter of Roy Krout, DEP, October 12, 1994. Throughout the 1990's monitoring did take place. Denials likewise came that the water quality was dangerous and deteriorating.

Testing done in September of 1996 was negligently performed. The test results were obtained from water which had previously been run through the well filtration system. Exhibit # 4, letter of Robert Miller to Ed Bearor, Sanborn's attorney, October 2, 1996.

At some point in the remediation effort, the City provided the Sanborn's with bottled water for the household use. As of April of 1997, the City terminated that program and

no longer would provide the bottled water. Exhibit # 5, letter of Robert Miller to Attorney Ed Bearor, March 21, 1997.

In May of 1996, it was decided on recommendation of Robert Gerber, Inc. that the Sanborn well should be monitored "for the indefinite future" yet concluded that it was "fit for domestic use." This obviously self-contradictory conclusion, later contradicted by science, undercut the need for the City to continue to deliver bottled water to the Sanborn's which was then on-going. Gerber's Hydrogeologist, Andrews Tolman, concluded that "traces of arsenic continue to be present in the well." Exhibit # 6, letter of Andrews Tolman to City Planner, Heinomen, March 22, 1996.

As of 2000, DEP's investigation and testing resulted in a significantly different assessment. Water samples had begun to be collected and the results obtained indicated some elements which exceeded Maximum Exposure Guidelines standards. In particular, manganese and arsenic exceeded the established guidelines. Exhibit # 7, letter of Theodore E. Wolfe, DEP, August 25, 2000. Extensive testing had been performed at that time on organic and inorganic substances. Exhibits # 8 and # 9. The Sanborn's are grateful for the thoroughness of the tested substances, yet are understandably concerned by the City's inaction in the face of hard evidence.

At some point in time, it was decided by the City Council to purchase the property lying between the Sanborn's and the Landfill. The so-called Dionne property's back boundary ran 105' from the Sanborn's to the Old Boom House Road. It is believed the city purchased the Dionne property for $85,000.00 in 1993. The funds to purchases that property came from the City's "fund balance". Land acquisition costs were not part of the City's landfill closure grant from DEP. The City explored purchase of the Sanborn property in 1995. It had an appraisal done which established a market value of $70,000.00 for the property. Exhibit# 10, letter of Robert Miller to Chellis Sanborn, October 23, 1995.

Mr. Wolfe's letter to the City, December 7, 2000 expressed low levels of arsenic were detected in monitoring wells near the Sanborn's property yet water samples from the Sanborn's residential well showed that both arsenic and manganese exceeded MEG standards. Sadly, "the time period between sampling the Sanborn well and the landfills wells was too great to determine if this difference is significant." Exhibit #11, letter of T. Wolfe to City Manager, December 7, 2000.

Continuing concern after closure of the Landfill caused the City to install a treatment system at the Sanborn home at a cost of $2750.00. As of 2008, total cost of the closure of the Old Town landfill was identified as $1.34 million dollars. Yet, serious problems remain with the Landfill and serious problems remain with the water supply to the Sanborn residence. Exhibit #12, e-mail letter of Wolfe to Sanborn's, July 31, 2008. We have enclosed a copy of a survey of the Sanborn property done by Forrest Smart, Licensed Maine Land Surveyor, dated August 10, 1992. Please locate the drilled well on the .43 acre parcel, Exhibit 13.

Gerber, Inc., referenced above, also recommended that "as a precautionary measure you sample the Sanborn well quarterly, and that Sodium be added to the current state of analytes. In addition to this basic testing, we recommend that you test the well annually for EPA 524.2 VOC compounds. If any of the indicated parameters shows a significant increase, the status of the well should be re-considered." Exhibit 14, Andrews Tolman of Gerber, Inc. to John Ellis, Director of Public Works, July 2, 1996.

We know testing has been inconsistent, perhaps even negligent, and certainly haphazard, given the history laid out, in short, above: years have gone by without testing, testing has not been consistent, testing has been less frequent than experts have recommended and testing performance has not been scientifically reliable. Testing has also been "delayed in the mail". Exhibit 15, letter of Robert Miller to Sanborn's attorney Ed Bearor of November 1, 1996. We believe the negligence continues to the present day. (See Exhibit # 16, Recommendation #3 of Memorandum of Dick Behr to Bob Birk, DEP: "It is my understanding that beginning this year (2012) the City of Old Town increased the sampling frequency to quarterly." This was recommended by Gerber, Inc. in 1996, 16 years earlier.

A Water Quality Summary prepared for Bob Birk, Project Manager, Division of Remediation, Bureau of Remediation and Waste Management by Dick Behr, Environmental Hydrogeology Specialist for the DEP states that "Ground water quality data for the several monitoring wells located adjacent to the closed landfill demonstrate landfill related contaminants continue to degrade groundwater quality in the immediate vicinity of the landfill." The Memorandum mentioned that Norlen's Water Treatment , LLC installed a treatment system at City expense at the Sanborn residence. "This treatment system was installed to reduce the concentrations of arsenic and manganese to acceptable levels.... The slightly elevated chloride concentration coupled with the relatively consistent low dissolved oxygen, suggests the presence of arsenic and manganese is related to the landfill." Exhibit #16, Memorandum of Dick Behr to Bob Birk, DEP, May 1, 2012.

Twenty years have passed since the Landfill was closed. Sixty years have passed since the Landfill was opened. Throughout that time the Sanborn's have resided at 2001 Bennoch Road, closely adjacent to the Old Town Landfill. Efforts have failed to ameliorate the poor water quality at the Sanborn home. The Sanborn's believe that the significant length of time which has elapsed and within which the City has continued to kick this problem down time's road shows negligence on the part of the City. Their lives have been adversely affected. Their daily life and perhaps even their health have deteriorated. Certainly their water problems have depleted the value of their home under any reasonable market analysis. They cannot drink their own water and they put themselves at risk if they take a shower using their own domestic water supply.

The Sanborn's demand closure to this threat to their health and safety. They demand more than twiddling thumbs and can-kicking this issue down some timeless road. They demand that the City cease waiting for the problem to heal itself. They demand compensation for years of worry, years of discomfort, years of inconvenience. All efforts

have failed to make them whole. They ask the City to use its "fund balance", or whatever resource it may draw upon, to purchase their property and adequately compensate them for their injuries.

As Tolman, the Gerber consultant recommended, "it would be prudent to continue negotiations for purchase of the Sanborn property, at a mutually agreeable price, as a preventative measure." Exhibit # 17, letter of Andrews Tolman to Charles Heinonan, City Planner, March 22, 1996. Others have opined similarly: "We propose the City either establish a new well for the neighbors or that the contaminated property(ies) be purchased by the City."

There is no way to precisely quantify the value of twenty years of concern and emotional and mental anguish that come from being on guard every day to the possibility that you may get ill, you may develop some life threatening illness from merely living in your home, exposed to chemical contamination. How do you place a value on the fear that showering or laundering or performing other household chores will cause you to become ill from exposure your contaminated water? Yes, drinking water has been supplied by the City, but no one else lives here. No one else lives daily with these concerns. The Sanborn's do. No one else has been denied life insurance because of exposure to arsenic in their water supply, but they have. Twenty years have passed and there is still pollution coming into their home and it continues every day. One expert opined that the Sanborn's water problem might get worse if the Dionne well was closed. The Dionne well was closed, and there are ample indications that the Sanborn water problem has gotten worse.

Almost twenty years ago the Sanborn's built a new garage. It cost approximately $23,000.00. Prior to building that garage they were assured by the City Manager and the Public Works Director that there would be "no problem with the landfill" so go ahead and build your garage. The Sanborn's may yet have a negligence claim against the City as a result of the contamination to their property. The demand herein made upon the City includes that potential claim and any and all others. The Sanborn's will convey their property to the City of Old Town and have asked that I place a demand before the City of $350,000.00. I trust that you will bring this before the City Council and respond as soon as possible.

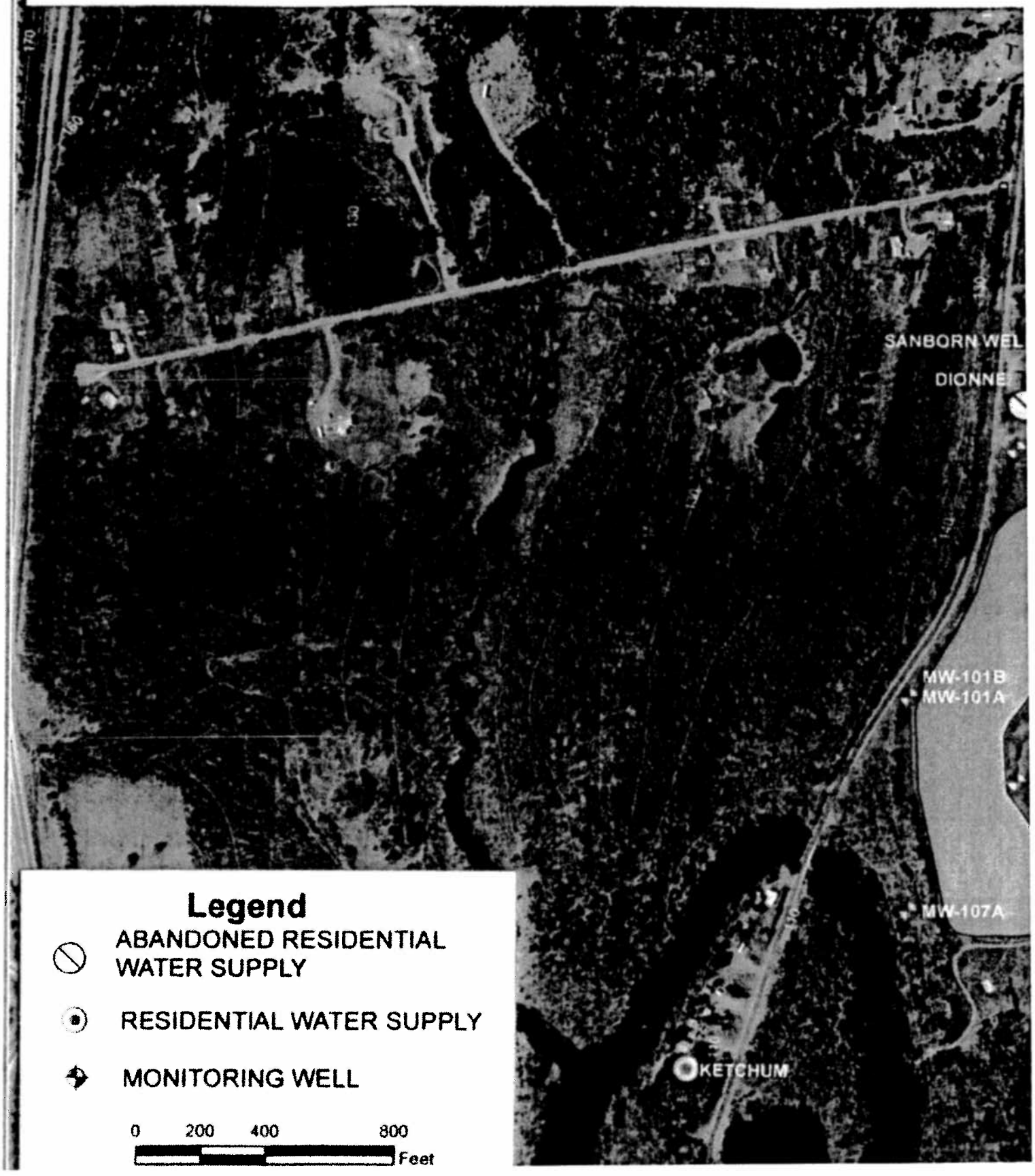
Yours very truly,

Dated: January 25, 2014

Dale F. Thistle, Esq.
Bar # 7483

cc. Chellis and Nadine Sanborn

OLD TOWN CLOSED MUNICIPAL LANDFILL
FIGURE 1

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WELL
SANBORN WELL
MW-102B
MW-102A
MW-103B
MW-103A
MW-108A

35' in some areas. In addition, a minimum of 15' of this material lies below the water table. We infer that the main part of the landfill has a similar base grade to that of the sludge area, and that there is likely a similar amount of solid waste below the water table under much of the landfill.

All the monitoring wells installed for this study show some influence of landfilling. MW 101, near Pushaw Stream, shows the most impact. This confirms our Phase I geophysical evaluations. The wells nearest the neighbors, MW 102, show traces of VOC's and toxic metals. MW 103, at the north end of the landfill, has traces of additional VOC's. Low levels of arsenic are present in both the near-landfill wells and the Sanborn well. The low gradients in the area and the relief on the bedrock surface make flow prediction difficult. The bedrock trough trending northeast may alter the local flow away from the residences. There is some potential for flow towards the domestic wells. Water from the residential wells currently meet Primary Drinking Water Standards for the parameters tested.

We limited our scope based on discussions with DEP to that necessary to assess the most likely pathways for migration from the site. We had originally proposed seven clusters of wells, and have installed three. Additional evaluations would provide additional understanding of ground water flow and transport between the landfill and receptors.

It would be prudent to either provide an alternate water supply for the neighbors or to conduct additional evaluations of ground water flow and leachate transport in their vicinity. A shallow well between the landfill and the Dionne well, and two nests of wells in the bedrock low would provide additional information about flow and water quality in this area. At a minimum, continued monitoring is appropriate for these wells. However, closure need not wait on the outcome of further evaluations.

Aggressive closure measures are justified. A composite cover on the top of the landfill will help to reduce infiltration. The cover should include the sludge area, as there is a significant amount of solid waste in this area, extending nearly to the property line. The closure design should consider consolidating this sludge material to the south, both to reduce the area to be covered and to reduce the likelihood of influencing the neighboring wells.

The landfill has a documented impact on nearby ground water quality. Solid waste and sludge are saturated with ground water in the northern portion of the site. Residential wells north of the site may be influenced by the landfill. Their current water quality meets Primary Drinking Water Regulations. Closure design should be started expeditiously, and the residential wells should be monitored on a regular basis. Either additional hydrogeologic evaluations of the flow system between the landfill and the residential wells or water supply replacement would be prudent.

Our work should be understood in the context in which we have performed it. We have estimated likely values for hydrogeologic and geochemical parameters based on limited data.

installed at a depth below the surface from 9.5 to 29.5 feet within the glaciomarine material. Monitoring well cluster 103 is located between seismic lines 10 and 11. These data predicted an overburden thickness between 16 and 45' over bedrock.

Bedrock observed in core from the three bedrock borings appears consistent with outcrops found around the site area. This consists of steeply dipping beds of moderately metamorphosed siltstone with quartz veins. Joint planes and manganese staining are not noted. Bedrock core appear moderately fractured with fractures dipping gently (5-10 degrees).

Piezometer installations encountered landfill material at all 4 locations. Piezometer locations 1 through 3 encountered predominantly ash sludge. Material at piezometer #4 consists predominantly of coarser sand and gravel with miscellaneous trash. All piezometer borings encountered strong sulfur-like odors. Piezometer depths, and therefore minimum depths of fill, ranged from 25 to 35 feet. The depth of the ash sludge disposed in this area is deeper than anticipated: at least 35' thick in some areas. In addition, a minimum of 15' of this material lies below the water table.

Variable Head Testing

Variable head test results are summarized in Table 1 and analyses are contained in Appendix B. Hydraulic conductivity of the glaciomarine material can be estimated from wells 102, 103 and #5. The average of these wells is 3.74 10^{-04} cm/sec. While this value is somewhat lower than the average value calculated from well #5 in 1990 (1.1 10^{-03} cm/sec), it falls within the 3 values calculated from well #5 in our Phase I investigation.

The average of the bedrock hydraulic conductivity is 5.85 10^{-05} cm/sec. This value may be skewed slightly high by the 1.71 10^{-04} cm/sec found in monitoring well #101. This well is located along a steeply dipping bedrock topographic surface and may represent an area of higher hydraulic conductivity. This low may parallel other northeast to southwest trending photolinears found to the south. The average hydraulic conductivity of wells 102 and 103 is 2.44 E-06 cm/sec. This value may be more typical of the more competent bedrock zones in the area.

Monitoring well 101 B is placed predominantly in till. However, since the screen zone straddles the till and lower glaciomarine contact (and therefore coarser material), the hydraulic conductivity is not representative of the till in the area.

and Lead were all detected in the shallow well. Although both wells show influence of the landfill, the shallow well generally shows higher concentrations of indicator parameters, including Coliform, Bicarbonate, Iron, Manganese, Chloride, and Hardness.

The Sanborn and Dionne wells have historically shown concentrations of Coliform. The most recent sampling showed no detections of Coliform, after the wells had been repeatedly disinfected. The Sanborn well shows traces of Arsenic, below drinking water standards, in both rounds. The fall round Dionne sample showed trace levels of Lead. Iron and Manganese are present in the Sanborn well in combined concentrations exceeding the Secondary Drinking Water levels. Other indicators of the landfill are not significantly elevated above expected background in these wells. Historical review of Sodium data suggest an upward trend, but data is not yet sufficient to document a trend.

Water Levels

Water Table elevations for June and September are indicated in Figures 4 and 5 respectively. Water levels decreased an average of almost 2 feet from June to September. With the exception of wells P 1 and P 4 the water table appears quite flat: ranging only about 2 feet in the landfill area and just over 3 feet to the Pushaw River in June. Water levels in P 1, which are higher than surrounding levels, may be influenced by focused drainage and recharge from the ditch between Route 16 and the landfill. Since a well was not established within the center of the landfill, the maximum extent of ground water mounding can not be precisely addressed. However, the 4 piezometers indicate that a minimum of 15' of landfilled material does lie below the water table. Data suggest that ground water flow from the center of the landfill is radial in nature. Vertical gradients are small; ground water flow appears to be nearly horizontal at the three locations. Owing to the limited relief on the water table, no contours are shown on Figures 4 and 5.

Hydrogeology

Revised bedrock topography is illustrated in Figure 6 and the revised overburden thickness is illustrated in Figure 7. Monitoring well and piezometer installation indicate that the bedrock surface may indeed contain a northeast to southwest trending low as predicted in the Phase I report. However, data indicate that the trough appears much lower than originally predicted. The bedrock drops off quite steeply near monitoring well cluster 101 and comes back up again before cluster 102. Higher hydraulic conductivity measurements in bedrock well 101 A corroborate that this bedrock low is associated with a zone of higher hydraulic conductivity in the bedrock. This bedrock low appears to pass directly beneath the northern end of the landfill.

Bedrock topography indicates that the bedrock increases in elevation along the property boundary to the north with the Dionne property. This indicates that more competent bedrock, with potentially lower hydraulic conductivities exist in this area. This increase in bedrock topography may prevent any dense contaminants from flowing through the surficial material northward. However, this bedrock high will not prevent flow of lighter potential contaminants in the northward direction.

Based on the topography, revised bedrock topography, geology, and surface drainage in the area, predominant ground water flow is to the south towards Pushaw Stream. However, data suggest that a radial flow pattern may have been established within the solid waste on the northern end of the site.

The predominant trend of foliation, photogeologic lineaments and fracture sets within the site vicinity is northeast to southwest. Phase I EM data suggests plumes within the bedrock aquifer to the south of the solid waste, along Pushaw Stream. Another possible plume in the bedrock, evident in the EM data, is in the northeast corner of the solid waste. High EM readings occur in the area to the northeast, where B 103 is located.

CONCLUSIONS AND RECOMMENDATIONS

The Old Town Landfill is located on a mapped sand and gravel aquifer. It is a relatively large site, with two phases of landfilling. The older portion of the landfill, in the western central portion of the property, has been covered and vegetated. The solid waste has been disposed in close proximity to Pushaw Stream and there are historic reports of dumping directly into the Stream. No leachate seeps or evidence of seeps were noted around the older landfill area during any of our field visits.

Since 1976 solid waste has been landfilled in the northern portion of the site. Numerous leachate seeps occur along the solid waste boundary. This northern portion of the site has had continual drainage and leachate seep problems.

The bedrock underlying the site is a phyllite or metasiltstone. In general, foliation is tight and fracture sets have relatively small aperture openings. Fractures generally are short and discontinuous. The predominant fracture and photogeologic orientation is northeast to southwest. There is a bedrock low which corresponds with this predominant orientation passing through the northern end of the landfill. This low is associated with a zone of higher hydraulic conductivity in the bedrock.

The predominant direction of ground water flow from the site is toward the Stillwater River and Pushaw Stream. The predominant ground water flow direction in the surficial deposits is

to the south towards Pushaw Stream. However, data also suggest that a radial flow pattern may have been established from water accumulating in the solid waste. Landfilled material lies below the water table at the northern end of the site. Based on limited data, ground water flow in the bedrock appears to be anisotropic with the preferred orientation in the northeast to southwest direction. There appears to be a bedrock low with this orientation passing through the northern portion of the solid waste. This zone is most likely associated with a zone of higher hydraulic conductivity in the bedrock.

The ash sludge disposed in the northern end of the landfill is thicker than anticipated: at least 35' in some areas. In addition, a minimum of 15' of this material lies below the water table. We infer that the main part of the landfill has a similar base grade to that of the sludge area, and that there is likely a similar amount of solid waste below the water table under much of the landfill.

All the monitoring wells installed for this study show some influence of landfilling. MW 101, near Pushaw Stream, shows the most impact. This confirms our Phase I geophysical evaluations. The wells nearest the neighbors, MW 102, show traces of VOC's and toxic metals. MW 103, at the north end of the landfill, has traces of additional VOC's. Low levels of arsenic are present in both the near-landfill wells and the Sanborn well. The low gradients in the area and the relief on the bedrock surface make flow prediction difficult. The bedrock trough trending northeast may alter the local flow away from the residences. There is some potential for flow towards the domestic wells. Water from the residential wells currently meet Primary Drinking Water Standards for the parameters tested.

Recommendations

We limited our scope based on discussions with DEP to that necessary to assess the most likely pathways for migration from the site. We had originally proposed seven clusters of wells, and have installed three. Additional evaluations would provide additional understanding of ground water flow and transport between the landfill and receptors.

It would be prudent to either provide an alternate water supply for the neighbors or to conduct additional evaluations of ground water flow and leachate transport in their vicinity. A shallow well between the landfill and the Dionne well, and two nests of wells in the bedrock low would provide additional information about flow and water quality in this area. At a minimum, continued monitoring is appropriate for these wells. However, closure need not wait on the outcome of further evaluations.

Aggressive closure measures are justified. A composite cover on the top of the landfill will help to reduce infiltration. The cover should include the sludge area, as there is a significant

Technical Services Review Memorandum
Division of Technical Services
Bureau of Hazardous Materials and Solid Waste Control

TO: Roy Krout, SIR
FROM: Peter Nickeson, Technical Services
DATE: 9/13/94
SUBJ: Old Town Landfill - residential well sampling

****

At your request I have reviewed the September 2, 1992 letter report prepared by Robert Gerber Inc. regarding the residential well sampling north of the Old Town landfill. I concur with the conclusion that the Dionne well is being contaminated by the landfill, and that the household water supply currently does not meet drinking water standards due to elevated concentration of arsenic. Sodium, iron, manganese and the organic compounds ethylbenzene and 1,1 dichloroethane are also degrading the quality of water in the Dionne well. The Sanborn and Stoyell wells, while currently not contaminated, may be at risk and should continue to be monitored.

The letter report offers suggestions for remedial action which include aggressive closure measures for the landfill, treatment for the Dionne water supply, an alternative water supply for the Dionne residence, or purchase of the Dionne property. In considering these options I recommend that you consider the following:

- The base of the waste is below the water table. Eliminating infiltration with a composite cap will not eliminate the problem if ground water continues to flow through the waste.
- If the Dionne well is abandoned, the chance of contaminants being drawn into the Sanborn well will be increased. The degree of increased risk to the Sanborn well is probably impossible to quantify.

Please see me if you have any questions.

WOODARD & CURRAN
ENVIRONMENTAL SERVICES

February 15, 1995

Mr. Roy Krout
Maine Dept. of Environmental Protection
Landfill Remediation and Closure
State House Station 17
Augusta, ME 04333

Dear Roy:

In our telephone conversation last week, you expressed your interest in reviewing both the closing and remediation plans for this project, so that the combined environmental and cost issues can be assessed together. We have developed this letter to review some of the issues involved, and we would like your input before we proceed any further with the design.

We understand that the DEP believes that this site requires an aggressive closure, with a composite cover system design. We agree with the need for prompt closure, but we are not convinced that a composite cover is warranted. The recommendation for a composite cover design is apparently based on the finding that there is already contamination of at least one homeowner's drinking water supply well, and there is concern for another.

Given the relatively steep gradient of groundwater flow at the north end of the landfill in the vicinity of the water supply wells, groundwater contamination is not likely to extend very far away from the landfill in the direction of the contaminated wells. It seems likely to us that a good quality clay cover may be as good as a composite cover in limiting the migration of contamination in that direction. We are also concerned that additional evaluations of the groundwater flow and leachate transport will not provide the information necessary to determine if a composite cover is justified.

Based on the above discussion, we are requesting to use a "regulatory" clay cover on this landfill instead of a composite design. If the DEP is requiring a composite cover for this site, please let us know as soon as possible. Note that we still propose to maintain the existing 2.5 acres of previously closed landfill along Pushaw Stream, for the reasons stated in our submission dated January 31, 1995.

One of the reasons we are questioning the use of a composite cover on this project is that the primary public health issue seems to be the quality of the neighbors' drinking water walls. We propose that the City either establish a new well for the neighbors or that the contaminated property(ies) be purchased by the City. Both of these options are far more cost effective than options such as establishing a leachate collection system, primarily because of the difficulties caused by the waste below the groundwater table. Either of the recommended approaches will substantially reduce or eliminate the public health risk.

We are requesting a meeting with you and Ted Wolfe to discuss how to best meet your needs for this project, so that the closure design can be completed for construction this year. The City is also very interested in knowing what funds are available to them for this project, as they requested in their letter to you in December. We will be in touch next week to schedule a time for the meeting.

Very truly yours,

WOODARD & CURRAN

Brent M. Bridges

Brent M. Bridges, P.E.
Associate

BMB/rb
94304.01

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JOHN R. McKERNAN, JR.
GOVERNOR

DEAN C. MARRIOTT
COMMISSIONER

DEBRAH RICHARD
DEPUTY COMMISSIONER

October 12, 1994

Mr. Chellis Sanborn
RR1 Box 194
Old Town, ME 04468

Dear Mr. Sanborn:

Robert G. Gerber, Inc. (RGGI), is performing work for the Maine Department of Environmental Protection concerning the site area and municipal closure of the Old Town landfill. part of that work, as you know, has been sampling your water supply. I have attached the most recent water quality information summary from June, 1994 for your information. This will give you an idea of how your results compare to drinking water quality guidelines.

In general, your water does not appear to be contaminated from the landfill at this time. RGGI found no detection of any volatile organic or semi-volatile organic that was tested for. The very small detection of methylene chloride noted was found as an estimated value below the laboratory's Practical Quantitation Level. This parameter is a common lab contaminant and was also detected in the lab method blank, making the actual presence in your water unlikely. The following parameters are noted for your benefit.

1. Arsenic was detected in your well water at the level of 0.026 mg/l. I understand that it was also detected in the 1993 sampling of your well. This level is below the (MEG) or Maximum Exposure Guideline of 0.05 mg/l. Arsenic can occur naturally in soils and rocks. Its presence in ground water is often noted, and may be worth monitoring over time.

2. Iron and manganese levels of 0.17 mg/l and 0.78 mg/l may be relatively high, however, the standards set for iron and manganese are primarily for aesthetic rather than health related reasons. Higher levels of iron and manganese are relatively common in Maine and usually result in such inconveniences such as discolored laundry and fixtures.

RGGI is finalizing their report to the DEP regarding the water quality sampling and their recommendations. Although

AUGUSTA
STATE HOUSE STATION 17
AUGUSTA, MAINE 04333-0017
(207) 287-7688 FAX: (207) 287 7826

PORTLAND
312 CANCO ROAD
PORTLAND, ME 04103
(207) 879-6300 FAX: (207) 879-6303

BANGOR
106 HOGAN ROAD
BANGOR, ME 04401
(207) 941 4570 FAX: (207) 941-4584

PRESQUE ISLE
1235 CENTRAL DRIVE, SKYWAY PARK
PRESQUE ISLE, ME 04769
(207) 764-0477 FAX: (207) 764-1507

your water supply does not appear to be contaminated from the landfill at this time, there is the possibility that it may be at risk and should be monitored. I hope the town will pursue responsibility for monitoring your water supply in conjunction with their efforts for landfill closure.

Please feel free in contacting me at 287-2651 or the city of Old Town at 827-3961, if you have any questions.

Sincerely:

Roy Krout

Roy Krout
Division of Site Investigation and Remediation
Bureau of Hazardous Materials and Solid Waste Control

c: Ron Signal, City Manager, City of Old Town
John Ellis, Public Works Director, City of Old Town
Kathy Bither, RGGI
Peter Nickeson, DEP

DRAFT

Sanborn Well
Water Quality Data
June - 1994

Well #	Date	Total Al (mg/L)	Total As (mg/L)	Total Ba (mg/L)	Total Cd (mg/L)	Total Ca (mg/L)	Total Cr (mg/L)	Total Cu (mg/L)	Total Fe (mg/L)	Total Pb (mg/L)	Total Mg (mg/L)	Total Mn (mg/L)	Total Hg (mg/L)	Total Ni (mg/L)
USEPA MCL		0.05*	0.05	5	0.005**	--	0.12**	1.3**	0.3*	0.02**	--	0.05*	0.002**	0.15@
Maine MEG		1.43		1.5	0.005		0.1			0.02		0.2	0.002	0.15
Sanborn	04/20/93	<0.10	0.022	0.026	<0.010	21	<0.015	<0.025	0.13	<0.005	13	0.51	<0.20	<0.040
	06/10/94	<0.10	0.026	0.041	<0.010	24	<0.015	<0.025	0.25	<0.005	16	0.75	<0.20	<0.040

Well #	Date	Total K (mg/L)	Total Se (mg/L)	Total Ag (mg/L)	Total Na (mg/L)	Bicarb (HCO3) (mg/L)	COD (mg/L)	Cl (mg/L)	Cn (ug/L)	Hardness CaCO3 (mg/L)	Nitrate (mg/L)	Ammonia (mg/L)	Sulfate (mg/L)
USEPA MCL		--	0.05***	0.09*	20**		131@@	250#	0.01##		10		250*
Maine MEG			0.01	0.05					0.154		10		
Sanborn	04/20/93	3.8	<0.005	<0.015	8.5	110	16	14	<20	110	<0.050	<0.10	4.5
	06/10/94	3.2	<0.005	<0.015	9.5	120	<15	15	<20	120	<0.050	<0.10	3.7

Well #	Date	Dissolved Al (mg/L)	Dissolved As (mg/L)	Dissolved Ba (mg/L)	Dissolved Cd (mg/L)	Dissolved Ca (mg/L)	Dissolved Cr (mg/L)	Dissolved Cu (mg/L)	Dissolved Fe (mg/L)	Dissolved Pb (mg/L)	Dissolved Mg (mg/L)	Dissolved Mn (mg/L)	Dissolved Hg (mg/L)	Dissolved Ni (mg/L)
USEPA MCL		0.05*	0.05	5	0.005**	--	0.1	1.0*	0.3*	0.02**	--	0.05*	0.002	0.15@
Maine MEG		1.43		1.5	0.005		0.1			0.02		0.2	0.002	0.15
Sanborn	06/10/94	<0.10	0.022	0.042	<0.010	25	<0.015	<0.025	0.17	<0.005	17	0.78	<0.20	<0.040

Well #	Date	Dissolved K (mg/L)	Dissolved Se (mg/L)	Dissolved Ag (mg/L)	Dissolved Na (mg/L)
USEPA MCL		--	0.05	0.09*	20**
Maine MEG			0.01	0.05	
Sanborn	06/10/94	2.9	<0.005	<0.015	9.8

Notes:
MCL = Maximum Contaminant Level
MEG = Maine Maximum Exposure Guidelines
* USEPA secondary MCL
** recommended USEPA MCL
-- no toxicity concerns noted (except possibly at very high levels)
@ USEPA Guidance Level
# established for taste considerations rather than toxicity.
USPHS recommended levels
USPHS recommended levels
Other parameters detected in 6/10/94 sampling:
Methylene Chloride = JB4 ug/l

-2886

SPENCER, ZMISTOWSKI & MILLER
ATTORNEYS AT LAW
P.O. BOX 467 - 49 NORTH MAIN STREET
OLD TOWN, MAINE 04468-0467

(207) 827-4454
FAX (207) 827-3237

SARAH S. ZMISTOWSKI
ROBERT E. MILLER

BEVERLY W. SPENCER
RETIRED
CHARLES O. SPENCER
(1947-1993)

October 2, 1996

Edmond J. Bearor, Esq.
Rudman & Winchell
P.O. Box 1401
Bangor, ME 04402-1401

Re: City of Old Town - Chellis Sanborn

Dear Ed:

Enclosed please find a copy of the most recent testing results performed on water from Chellis Sanborn's well. I have reviewed the results with John Ellis, director of Old Town Public Works.

It should be noted that the analysis indicates, for all categories tested, that the water quality was found to be satisfactory.

John has determined that the sample was taken from water which had been run through the well filtration system. He has decided to take another sample and obtain another analysis of water directly from the well. As soon as those results are available, we will forward them to you.

Please call me if you have any questions.

Very truly yours,

Robert E. Miller
Attorney at Law

REM/jh
File #90000.172

Jan 827-3237

HEALTH AND ENVIRONMENTAL TESTING LABORATORY
221 STATE STREET, STATION #12
DEPARTMENT OF HUMAN SERVICES
AUGUSTA, MAINE 04333
207-287-1716

PUB
O

TO BE BILLED

COPY

TO:
OLD TOWN PUBLIC WORKS DEPT
51 N BRUNSWICK ST
OLD TOWN, ME 04468

TSB +NA

NOTE: PLEASE RETAIN THIS REPORT
FOR YOUR INVOICE RECORDS, THANK YOU

SAMPLE #96E-PUB-14416 SAMPLE RECEIVED ON: 960905
PRINT DATE: SEPT 10 1996 Analysis Completion Date: 960910
(SANDBORN HOME)
SAMPLED BY: JOHN ELLIS LOCATION: OLD TOWN
SAMPLE COLLECTION DATE:09/04/96 WATER USED BY:PRIVATE HOME

--- COMPLETE SPECIFIC CHEMICAL ANALYSIS ---

Analysis Requested of Lab		Analysis Results		Maximum Recommended Level (For Comparison)		
TOTAL COLIFORM		POSITIVE	COL/100ML	.000	COL/100ML***	
TOTAL HARDNESS		136.7	MG/L	500.000	MG/L	
TOTAL CHLORIDE		38	MG/L	250.000	MG/L	
NITRITE NITROGEN	<	.020	MG/L	1.000	MG/L	
NITRATE NITROGEN	<	.200	MG/L	10.000	MG/L	
COPPER		.03	MG/L	1.300	MG/L	
IRON		.16	MG/L	.300	MG/L	
MANGANESE		.78	MG/L	.050	MG/L	***
pH		7.9		9.500		
FLUORIDE	<	.200	MG/L(PPM)	4.000	MG/L(PPM)	
SODIUM		10.50	MG/L	100.000	MG/L	
E COLI SWAB		0		.000		

WATER QUALITY: MAY BE UNSATISFACTORY, READ ATTACHED NOTE

The Maximum Recommended Level is a benchmark for comparing your Analysis Results. If any of your Analysis Results exceed this Maximum Recommended Level, an asterisk (***) will be printed there in the right most column. Parameters with an asterisk (***) MAY be unsatisfactory. For those with an asterisk, we have enclosed additional information. IF YOU DO NOT FIND AN ASTERISK (***) IN THE RIGHT MOST COLUMN FOR ANY TEST PARAMETER, THEN YOUR WATER IS CONSIDERED SATISFACTORY FOR THAT PARAMETER.

The "<" symbol represents NOT DETECTED for that particular parameter.
If we can be of further assistance to you, please call us at 287-1716.
NOTE: ALL RESULTS LISTED ABOVE ARE ANALYZED ACCORDING TO THE "State of Maine Rules Relating to Drinking Water".

Post-it® Fax Note 7671	Date 10-2-96	# of pages ▶ 1
To JAN	From JOHN ELLIS	
Co./Dept BOB MILLER'S OFF	Co. PUB. WORKS DEPT	
Phone #	Phone # 827-3974	
Fax #	Fax # 827-3973	

SPENCER, ZMISTOWSKI & MILLER
ATTORNEYS AT LAW
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SARAH S. ZMISTOWSKI
ROBERT E. MILLER

BEVERLY W. SPENCER, RETIRED
CHARLES O. SPENCER, (1947-1993)

March 21, 1997

Edmond J. Bearor, Esq
Rudman & Winchell
84 Harlow Street
Old Town, ME 04468

COPY

Re: Chellis Sanborn Matter

Dear Ed:

At the last Council workshop, there was a question as to whether you wanted the Council to formally take any action in respect to Mr. Sanborn's request for reimbursement. If you do, would you please get back to me as soon as possible so we can place an item on the agenda for the next Council meeting.

John Ellis spoke to me earlier this week and indicated that their present arrangements for delivery of water for the Sanborn residence expires at the end of March. Therefore, effective April 1, 1997, the City plans to not deliver any more bottled water them.

Very truly yours,

Robert E. Miller
Attorney at Law

REM/tg
File #90000.172

MAR 24

Robert G. Gerber, Inc.
a Jacques Whitford Company
Consulting Engineers and Environmental Scientists

174 South Freeport Road
Freeport, ME U.S.A. 04032-8115

Tel: 207 865 6138
Fax: 207 865 1071

March 22, 1996
file 1534

Charles Heinonen, Planner
City of Old Town
51 North Brunswick Street
Old Town, ME 04468

Subject: Review of Water Quality Data, Sanborn Well

Dear Mr. Heinonen:

You have requested that Robert G. Gerber, Inc., assist the City by reviewing available water quality data from the Sanborn well for the purpose of assessing the potential influence of the City's landfill on the well. We are doing this work with your verbal authorization under the terms of the contract we negotiated with the City in 1992. By using this letter, you agree to pay reasonable charges for our work.

John Ellis, Public Works Director, provided water quality data from 1995 and 1996 to add to our historical sampling in 1993 and 1994. A table summarizing that data is attached to this letter. The recent samples were analyzed for an indicator parameter suite, so the blank spaces in the table represent parameters not tested. We have plotted the concentrations of Manganese, Chloride, and Hardness over time; a copy of that graph is attached to this letter.

For the parameters tested, the water quality at the Sanborn well remains acceptable. Traces of arsenic continue to be present in the well. The concentrations are consistent over time, and are approximately 1/20 of the EPA's Maximum Contaminant Level (MCL). Low levels of Arsenic are present in ground water over much of Maine, and are unlikely to be associated with operations at the landfill. Metals concentrations (Iron, Manganese, and Copper) do not show any trend or represent a change from normal values in the area.

Hardness and Chloride show an apparent increasing trend. Both remain at acceptable levels. Existing information does not link the increase in these two parameters directly to the landfill. However, these small but consistent increases suggest that the water feeding the well is becoming increasingly mineralized. It is possible that the landfill may be associated with these changes in water chemistry. A more complete analysis of the water, including both the suite listed on the table and volatile organic compounds (EPA 8240), might shed some light on the genesis of this

trend.

Nothing in the current analyses indicates that the water is unsafe for normal domestic use. The analyses performed were not comprehensive, and it is possible that other constituents could be present. We suggest that the City consider sampling for the suite mentioned above, and that it would be prudent to continue negotiations for purchase of the Sanborn property, at a mutually agreeable price, as a preventative measure. Please give me a call if you have questions.

Sincerely,

Robert G. Gerber, Inc.

Andrews L. Tolman, C.G.
Principal Hydrogeologist

enc.

file :534OTS.LET

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

ANGUS S. KING, JR.
GOVERNOR

MARTHA KIRKPATRI
COMMISSIONER

August 25, 2000

Mr. Charles Sanborn
RR 1, Box 194
Old Town, Maine 04468

Re: Water Sampling Results

Dear Mr. Sanborn:

Enclosed please find results from the water samples collected from your water supply on June 7, 2000. Sampling of nearby landfill monitoring wells will not be accomplished until September.

My review of these results indicate that no volatile organic compounds were detected. The results for the inorganic contaminates indicate that most compare favorably with established Maximum Exposure Guideline (MEG) standards. However, manganese at 0.72 parts per million (MEG = 0.50 ppm) and arsenic at 0.021 ppm (MEG = 0.010 ppm) exceed the established standards.

Other parameters, such as conductivity, alkalinity, pH, nitrite, nitrate, etc., associated with landfill leachate, are in the normal range. The elevated levels of manganese and arsenic, your proximity to the landfill and the higher historical levels of corresponding contaminants in nearby landfill monitoring wells indicate the landfill as the most likely source.

Since manganese and arsenic in your well water exceed established MEG standards, the DEP recommends that you use bottled water for cooking and drinking purposes. Your well water is suitable for other uses.

These results will be forwarded to the town.

If you have any additional concerns or questions, please contact me at (207) 287-8552.

Sincerely,

Theodore E. Wolfe
Landfill Closure and Remediation Program
Division of Remediation
Bureau of Remediation and Solid Waste Management

AUGUSTA
17 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0017
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(207) 941-4570 FAX: (207) 941-4584

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312 CANCO ROAD
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00E-DOR-02337

MAINE HEALTH AND ENVIRONMENTAL TESTING LABORATORY
221 State Street, Station #12
Department of Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716
Fax. No. 207-287-6832

HETL

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ORGANICS SECTION REPORT

To:

TED WOLFE
DEP SHS 17

Test Request Codes:

TSN

Appropriation Number:
DEP-

Please Retain This Report for your Invoice Records.

SAMPLE DEMOGRAPHICS AND LOCATION DATA:

Project Name OLD TOWN LANDFILL **Project Number** 8415

Collection Date 06/07/2000 **Print Date** 06/12/00

Sample Location
SANBORN OLD TOWN

ANALYTICAL RESULTS:

HETL Sample Number 00E-DOR-02337 **User Number:**
Analysis Validation Date 06/12/00
Sample Matrix **Sample Point** **Sampled by**
WATER

Analytical Test	**Results**	**Units**
EPA METHOD 524.2		
NO COMPOUNDS COVERED BY THIS METHOD WERE DETECTED.		ug/L
ANALYSIS DATE	06/08/00	
SEE FORM TS524 FOR TEST ANALYTES AND REPORTING LIMITS.		

-
-
-

Summary of Notations used in Reporting Analytical Results:

NC= Not Confirmed NQ= Not Quantitated NA= Not Analyzed J= Approximately
RL= Reporting Limit, the lowest concentration which can be reliably reported on a routine basis
<= Less than K= Indicates a possible, non-confirmed trace level below the RL
Note: Results below the advisory limit, including < and K are considered satisfactory for that parameter.

Analyst: WB QC: JJ

If we can be of further assistance to you, Please Call us at 287-1712, and ask for the Organics Section.

00E-DOR-02337

Visit our Web Site at: www.state.me.us\dhs\etl

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ORGANICS SECTION REPORT

To:

TED WOLFE
DEP SHS 17

Test Request Codes:

TSN

Appropriation Number:
DEP-

Please Retain This Report for your Invoice Records.

SAMPLE DEMOGRAPHICS AND LOCATION DATA:

Project Name OLD TOWN LANDFILL **Project Number** 8415
Collection Date 06/07/2000 **Print Date** 06/12/00
Sample Location
SANBORN OLD TOWN

ANALYTICAL RESULTS:

HETL Sample Number 00E-DOR-02337 **User Number:**
Analysis Validation Date 06/12/00
Sample Matrix **Sample Point** **Sampled by**
WATER

Analytical Test	Results	Units
EPA METHOD 524.2		
NO COMPOUNDS COVERED BY THIS METHOD WERE DETECTED.		ug/L
ANALYSIS DATE	06/08/00	
SEE FORM TS524 FOR TEST ANALYTES AND REPORTING LIMITS.		

Summary of Notations used in Reporting Analytical Results:

NC= Not Confirmed NQ= Not Quantitated NA= Not Analyzed J= Approximately
RL= Reporting Limit, the lowest concentration which can be reliably reported on a routine basis
<= Less than K= Indicates a possible, non-confirmed trace level below the RL
Note: Results below the advisory limit, including < and K are considered satisfactory for that parameter.

Analyst: WB QC: JJ

If we can be of further assistance to you, Please Call us at 287-1712, and ask for the Organics Section.

JANBURN
RR 1 Box 194
Old Town 04468

Visit our Web Site at: www.state.me.us/dhs/e

MAINE HEALTH AND ENVIRONMENTAL TESTING LABORATORY
221 State Street, Station #12
Department of Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716
Fax. No. 207-287-6832

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INORGANICS SECTION REPORT

To:

TED WOLFE
DEP SHS 17

Test Request Codes:

TSFDEP

Appropriation Number:
DEP-

Please Retain This Report for your Invoice Records.

SAMPLE DEMOGRAPHICS AND LOCATION DATA:

Project Name OLD TOWN LANDFILL **Project Number** 8415

Collection Date 06/07/2000 **Print Date** 06/26/00

Sample Location
OLD TOWN

Summary of Notations used in Reporting Analytical Results:

J= Approximately L= Greater Than K= Less Than NA= Not Analyzed
RL= Reporting Limit, the lowest concentration which can be reliably reported on a routine basis
ND= Not Detected Down to the Reporting Limit (RL)

If we can be of further assistance to you, Please Call us at 287-1712, and ask for the Inorganics Section.

ANALYTICAL RESULTS:

QC Review: T. Curl

HETL Sample Number 00E-DIN-00189 **User Number:** [redacted]

Analysis Validation Date 06/22/00

Sample Matrix
WATER

Sample Type **Sampled by**

Analytical Test	Results
TOTAL COLIFORM	0
E COLI	0
NITRITE	[illegible]
NITRATE	K.[illegible]
SODIUM	22
CALCIUM	35
MAGNESIUM	12
IRON	5.3
MANGANESE	0.12
ARSENIC	[illegible]03
TOTAL DISSOLVED SOLIDS	[illegible]
AMMONIA NITROGEN	K.01
TOTAL CHLORIDE	39

All Units are expressed as PPM, Parts [illegible]on

BARIUM	0.003
POTASSIUM	1.9
CADMIUM	ND0.0005
CHROMIUM	0.001
LEAD	
MERCURY	ND0
TOTAL ORGANIC CARBON	
ALKALINITY	19
SULFATE	9
pH	6.2
CONDUCTIVITY	363

Comment: J = ESTIMATED RESULT DUE TO NON-HOMOGENEOUS SAMPLE

HETL Sample Number 00E-DIN-00812
Analysis Validation Date 06/22/00
Sample Matrix WATER
User Number: SANBORN
Sample Type
Sampled by

All Units are expressed as PPM, Parts Per Million

Analytical Test	Results
TOTAL COLIFORM	0
E COLI	0
NITRITE	K.01
NITRATE	K.2
SODIUM	9.8
CALCIUM	27
MAGNESIUM	15
IRON	0.06
MANGANESE	0.72
ARSENIC	0.021
TOTAL DISSOLVED SOLIDS	173
AMMONIA NITROGEN	.04
TOTAL CHLORIDE	28
BARIUM	0.031
POTASSIUM	3.4
CADMIUM	ND0.0005
CHROMIUM	ND 0.001
LEAD	ND 0.003
MERCURY	ND0.0002
TOTAL ORGANIC CARBON	2
ALKALINITY	106
SULFATE	5
pH	7.6
CONDUCTIVITY	268

HETL Sample Number 00E-DIN-01186
Analysis Validation Date 06/22/00
Sample Matrix WATER
User Number:
Sample Type
Sampled by

All Units are expressed as PPM, Parts Per Million

Analytical Test	Results
TOTAL COLIFORM	0
E COLI	0
NITRITE	

NITRATE	.42
SODIUM	52 ✓
CALCIUM	29
MAGNESIUM	11
IRON	0.13
MANGANESE	0.020
ARSENIC	0.006
TOTAL DISSOLVED SOLID	266
AMMONIA NITROGEN	
TOTAL CHLORIDE	
BARIUM	
POTASSIUM	6.
CADMIUM	MD0.
CHROMIUM	ND 0.
LEAD	0.003
MERCURY	ND0.0002
TOTAL ORGANIC CARBON	ND 1
ALKALINITY	88
SULFATE	8
pH	7.2
CONDUCTIVITY	459

00E-DOR-06553

Visit our Web Site at: www.state.me.us\dhs\etl

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Department of Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716
Fax. No. 207-287-6832

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ORGANICS SECTION REPORT

To:

TED WOLFE
DEP SHS 17

Test Request Codes:
PPVW
Appropriation Number:
DEP-

Please Retain This Report for your Invoice Records.

SAMPLE DEMOGRAPHICS AND LOCATION DATA:

Project Name OLD TOWN LANDFILL **Project Number** 9104
Collection Date 10/13/2000 **Print Date** 10/18/00
Sample Location
MW102B ✓ OLD TOWN
Additional Comments
PLEASE TEST PH/COND

ANALYTICAL RESULTS:

HETL Sample Number 00E-DOR-06553 **User Number:**
Analysis Validation Date 10/18/00
Sample Matrix WATER **Sample Point** **Sampled by** BENESKI

Analytical Test	Results	Units
VOLATILES IN WATER-8260		
< = LESS THAN REPORTING LIMIT.		ug/L
-		
-		
DICHLORODIFLUOROMETHANE	1.5	
CHLOROMETHANE	<1.0	
VINYL CHLORIDE	<1.0	
BROMOMETHANE	<1.0	
CHLOROETHANE	<1.0	
TRICHLOROFLUOROMETHANE	<1.0	
FREON 113	<1.0	
ACETONE	<5.0	
1,1-DICHLOROETHYLENE	<1.0	
DICHLOROMETHANE	<1.0	
CARBON DISULFIDE	<1.0	
MTBE	<1.0	
T-1,2 DICHLOROETHYLENE	<1.0	

00E-DOR-06553 **Continued from Previous Page, Sample Number: 00E-DOR-06553**

VINYL ACETATE	<5.0
1,1-DICHLOROETHANE	<1.0
22 DICHLOROPROPANE	<1.0
METHYL ETHYL KETONE	<5.0
CIS 12 DICHLOROETHYLENE	<1.0
BROMOCHLOROMETHANE	<1.0
CHLOROFORM	<1.0
111 TRICHLOROETHANE	<1.0
CARBON TETRACHLORIDE	<1.0
11-DICHLOROPROPENE	<1.0
BENZENE	<1.0
1,2-DICHLOROETHANE	<1.0
TRICHLOROETHYLENE	<1.0
12 DICHLOROPROPANE	<1.0
DIBROMOMETHANE	<1.0
BROMODICHLOROMETHANE	<1.0
METHYL ISOBUTYL KETONE	<1.0
2-CHLOROETHYLVINYL ETHER	<5.0
CIS 1,3-DICHLOROPROPENE	<1.0
TOLUENE	<1.0
TRANS-13 DICHLOROPROPENE	<1.0
1,1,2-TRICHLOROETHANE	<1.0
2-HEXANONE	<1.0
TETRACHLOROETHYLENE	<1.0
13-DICHLOROPROPANE	<1.0
CHLORODIBROMOMETHANE	<1.0
ETHYLENE DIBROMIDE	<1.0
MONOCHLOROBENZENE	<1.0
1,1,1,2TETRACHLOROETHANE	<1.0
ETHYL BENZENE	<1.0
TOTAL XYLENES	<1.0
STYRENE	<1.0
ISOPROPYL BENZENE	<1.0
BROMOFORM	<1.0
BROMOBENZENE	<1.0
1122 TETRACHLOROETHANE	<1.0
123 TRICHLOROPROPANE	<1.0
N-PROPYLBENZENE	<1.0
O-CHLOROTOLUENE	<1.0
P-CHLOROTOLUENE	<1.0
135 TRIMETHYLBENZENE	<1.0
TERT-BUTYLBENZENE	<1.0
124 TRIMETHYLBENZENE	<1.0
SEC-BUTYLBENZENE	<1.0
M-DICHLOROBENZENE	<1.0
123 TRIMETHYLBENZENE	<1.0
P ISOPROPYLTOLUENE	<1.0
P-DICHLOROBENZENE	<1.0
O-DICHLOROBENZENE	<1.0
N-BUTYL BENZENE	<1.0

00E-DOR-06553 **Continued from Previous Page, Sample Number: 00E-DOR-06553**

DIBROMOCHLOROPROPANE	<2.0
124 TRICHLOROBENZENE	<1.0
HEXACHLOROBUTADIENE	<1.0
NAPHTHALENE	<2.0
123 TRICHLOROBENZENE	<1.0
--SURROGATE RECOVERY	%RECOV
D4 1,2-DICHLOROETHANE	101.6
1,4-DIFLUOROBENZENE	101.7
D5-CHLOROBENZENE	100.8
1,2-DICHLOROBENZENE-D4	109.2
ANALYSIS DATE	10/16/00

Summary of Notations used in Reporting Analytical Results:

NC= Not Confirmed NQ= Not Quantitated NA= Not Analyzed J= Approximately
RL= Reporting Limit, the lowest concentration which can be reliably reported on a routine basis
<= Less than K= Indicates a possible, non-confirmed trace level below the RL
Note: Results below the advisory limit, including < and K are considered satisfactory for that parameter.

Analyst: QC:

If we can be of further assistance to you, Please Call us at 287-1712, and ask for the Organics Section.

00E-DOR-06896

Visit our Web Site at: www.state.me.us\dhs\etl

MAINE HEALTH AND ENVIRONMENTAL
TESTING LABORATORY
221 State Street, Station #12
Department of Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716
Fax. No. 207-287-6832

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ORGANICS SECTION REPORT

To:

TED WOLFE
DEP SHS 17

Test Request Codes:
PPVW
Appropriation Number:
DEP-

Please Retain This Report for your Invoice Records.

SAMPLE DEMOGRAPHICS AND LOCATION DATA:

Project Name OLD TOWN LANDFILL **Project Number** 9104
Collection Date 10/13/2000 **Print Date** 10/18/00
Sample Location
MW105A OLD TOWN
Additional Comments
PLEASE TEST PH/COND

ANALYTICAL RESULTS:

HETL Sample Number 00E-DOR-06896 **User Number:**
Analysis Validation Date 10/18/00
Sample Matrix WATER **Sample Point** **Sampled by** BENESKI

Analytical Test	Results	Units
VOLATILES IN WATER-8260		
< = LESS THAN REPORTING LIMIT.		ug/L
-		
-		
DICHLORODIFLUOROMETHANE	<1.0	
CHLOROMETHANE	<1.0	
VINYL CHLORIDE	<1.0	
BROMOMETHANE	<1.0	
CHLOROETHANE	<1.0	
TRICHLOROFLUOROMETHANE	<1.0	
FREON 113	<1.0	
ACETONE	<5.0	
1,1-DICHLOROETHYLENE	<1.0	
DICHLOROMETHANE	<1.0	
CARBON DISULFIDE	<1.0	
MTBE	<1.0	
T-1,2 DICHLOROETHYLENE	<1.0	

00E-DOR-06896 Continued from Previous Page, Sample Number: 00E-DOR-06896

VINYL ACETATE	<5.0
1,1-DICHLOROETHANE	<1.0
22 DICHLOROPROPANE	<1.0
METHYL ETHYL KETONE	<5.0
CIS 12 DICHLOROETHYLENE	<1.0
BROMOCHLOROMETHANE	<1.0
CHLOROFORM	<1.0
111 TRICHLOROETHANE	<1.0
CARBON TETRACHLORIDE	<1.0
11-DICHLOROPROPENE	<1.0
BENZENE	<1.0
1,2-DICHLOROETHANE	<1.0
TRICHLOROETHYLENE	<1.0
12 DICHLOROPROPANE	<1.0
DIBROMOMETHANE	<1.0
BROMODICHLOROMETHANE	<1.0
METHYL ISOBUTYL KETONE	<1.0
2-CHLOROETHYLVINYL ETHER	<5.0
CIS 1,3-DICHLOROPROPENE	<1.0
TOLUENE	<1.0
TRANS-13 DICHLOROPROPENE	<1.0
1,1,2-TRICHLOROETHANE	<1.0
2-HEXANONE	<1.0
TETRACHLOROETHYLENE	<1.0
13-DICHLOROPROPANE	<1.0
CHLORODIBROMOMETHANE	<1.0
ETHYLENE DIBROMIDE	<1.0
MONOCHLOROBENZENE	<1.0
1,1,1,2TETRACHLOROETHANE	<1.0
ETHYL BENZENE	<1.0
TOTAL XYLENES	<1.0
STYRENE	<1.0
ISOPROPYL BENZENE	<1.0
BROMOFORM	<1.0
BROMOBENZENE	<1.0
1122 TETRACHLOROETHANE	<1.0
123 TRICHLOROPROPANE	<1.0
N-PROPYLBENZENE	<1.0
O-CHLOROTOLUENE	<1.0
P-CHLOROTOLUENE	<1.0
135 TRIMETHYLBENZENE	<1.0
TERT-BUTYLBENZENE	<1.0
124 TRIMETHYLBENZENE	<1.0
SEC-BUTYLBENZENE	<1.0
M-DICHLOROBENZENE	<1.0
123 TRIMETHYLBENZENE	<1.0
P ISOPROPYLTOLUENE	<1.0
P-DICHLOROBENZENE	<1.0
O-DICHLOROBENZENE	<1.0
N-BUTYL BENZENE	<1.0

00E-DOR-06896 **Continued from Previous Page, Sample Number: 00E-DOR-06896**

DIBROMOCHLOROPROPANE	<2.0
124 TRICHLOROBENZENE	<1.0
HEXACHLOROBUTADIENE	<1.0
NAPHTHALENE	<2.0
123 TRICHLOROBENZENE	<1.0
--SURROGATE RECOVERY	%RECOV
D4 1,2-DICHLOROETHANE	103.2
1,4-DIFLUOROBENZENE	101.4
D5-CHLOROBENZENE	100.5
1,2-DICHLOROBENZENE-D4	113.6
ANALYSIS DATE	10/16/00

Summary of Notations used in Reporting Analytical Results:

NC= Not Confirmed NQ= Not Quantitated NA= Not Analyzed J= Approximately

RL= Reporting Limit, the lowest concentration which can be reliably reported on a routine basis

<= Less than K= Indicates a possible, non-confirmed trace level below the RL

Note: Results below the advisory limit, including < and K are considered satisfactory for that parameter.

Analyst: QC:

If we can be of further assistance to you, Please Call us at 287-1712, and ask for the Organics Section.

00E-DOR-06898

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SAMPLE DEMOGRAPHICS AND LOCATION DATA:

Project Name OLD TOWN LANDFILL **Project Number** 9104
Collection Date 10/13/2000 **Print Date** 10/18/00
Sample Location
MW102A OLD TOWN
Additional Comments
PLEASE TEST PH/COND

ANALYTICAL RESULTS:

HETL Sample Number 00E-DOR-06898 **User Number:**
Analysis Validation Date 10/18/00
Sample Matrix WATER **Sample Point** **Sampled by** BENESKI

Analytical Test	Results	Units
VOLATILES IN WATER-8260		
< = LESS THAN REPORTING LIMIT.		ug/L
-		
-		
DICHLORODIFLUOROMETHANE	<1.0	
CHLOROMETHANE	<1.0	
VINYL CHLORIDE	<1.0	
BROMOMETHANE	<1.0	
CHLOROETHANE	<1.0	
TRICHLOROFLUOROMETHANE	<1.0	
FREON 113	<1.0	
ACETONE	<5.0	
1,1-DICHLOROETHYLENE	<1.0	
DICHLOROMETHANE	<1.0	
CARBON DISULFIDE	<1.0	
MTBE	<1.0	
T-1,2 DICHLOROETHYLENE	<1.0	

00E-DOR-06898

Continued from Previous Page, Sample Number: 00E-DOR-06898

VINYL ACETATE	<5.0
1,1-DICHLOROETHANE	<1.0
22 DICHLOROPROPANE	<1.0
METHYL ETHYL KETONE	<5.0
CIS 12 DICHLOROETHYLENE	<1.0
BROMOCHLOROMETHANE	<1.0
CHLOROFORM	<1.0
111 TRICHLOROETHANE	<1.0
CARBON TETRACHLORIDE	<1.0
11-DICHLOROPROPENE	<1.0
BENZENE	<1.0
1,2-DICHLOROETHANE	<1.0
TRICHLOROETHYLENE	<1.0
12 DICHLOROPROPANE	<1.0
DIBROMOMETHANE	<1.0
BROMODICHLOROMETHANE	<1.0
METHYL ISOBUTYL KETONE	<1.0
2-CHLOROETHYLVINYL ETHER	<5.0
CIS 1,3-DICHLOROPROPENE	<1.0
TOLUENE	<1.0
TRANS-13 DICHLOROPROPENE	<1.0
1,1,2-TRICHLOROETHANE	<1.0
2-HEXANONE	<1.0
TETRACHLOROETHYLENE	<1.0
13-DICHLOROPROPANE	<1.0
CHLORODIBROMOMETHANE	<1.0
ETHYLENE DIBROMIDE	<1.0
MONOCHLOROBENZENE	<1.0
1,1,1,2TETRACHLOROETHANE	<1.0
ETHYL BENZENE	<1.0
TOTAL XYLENES	<1.0
STYRENE	<1.0
ISOPROPYL BENZENE	<1.0
BROMOFORM	<1.0
BROMOBENZENE	<1.0
1122 TETRACHLOROETHANE	<1.0
123 TRICHLOROPROPANE	<1.0
N-PROPYLBENZENE	<1.0
O-CHLOROTOLUENE	<1.0
P-CHLOROTOLUENE	<1.0
135 TRIMETHYLBENZENE	<1.0
TERT-BUTYLBENZENE	<1.0
124 TRIMETHYLBENZENE	<1.0
SEC-BUTYLBENZENE	<1.0
M-DICHLOROBENZENE	<1.0
123 TRIMETHYLBENZENE	<1.0
P ISOPROPYLTOLUENE	<1.0
P-DICHLOROBENZENE	<1.0
O-DICHLOROBENZENE	<1.0
N-BUTYL BENZENE	<1.0

00E-DOR-06898 **Continued from Previous Page, Sample Number: 00E-DOR-06898**

DIBROMOCHLOROPROPANE	<2.0
124 TRICHLOROBENZENE	<1.0
HEXACHLOROBUTADIENE	<1.0
NAPHTHALENE	<2.0
123 TRICHLOROBENZENE	<1.0
--SURROGATE RECOVERY	%RECOV
D4 1,2-DICHLOROETHANE	100.3
1,4-DIFLUOROBENZENE	102.5
D5-CHLOROBENZENE	99.8
1,2-DICHLOROBENZENE-D4	112.5
ANALYSIS DATE	10/16/00

Summary of Notations used in Reporting Analytical Results:

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Analyst: QC:

If we can be of further assistance to you, Please Call us at 287-1712, and ask for the Organics Section.

00E-DOR-06899

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Augusta, Maine 04333
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SAMPLE DEMOGRAPHICS AND LOCATION DATA:

Project Name OLD TOWN LANDFILL **Project Number** 9104
Collection Date 10/13/2000 **Print Date** 10/18/00
Sample Location
MW107A OLD TOWN
Additional Comments
PLEASE TEST PH/COND

ANALYTICAL RESULTS:

HETL Sample Number 00E-DOR-06899 **User Number:**
Analysis Validation Date 10/18/00
Sample Matrix **Sample Point** **Sampled by**
WATER BENESKI

Analytical Test	Results	Units
VOLATILES IN WATER-8260		
< = LESS THAN REPORTING LIMIT.		ug/L
-		
-		
DICHLORODIFLUOROMETHANE	<1.0	
CHLOROMETHANE	<1.0	
VINYL CHLORIDE	<1.0	
BROMOMETHANE	<1.0	
CHLOROETHANE	<1.0	
TRICHLOROFLUOROMETHANE	<1.0	
FREON 113	<1.0	
ACETONE	<5.0	
1,1-DICHLOROETHYLENE	<1.0	
DICHLOROMETHANE	<1.0	
CARBON DISULFIDE	<1.0	
MTBE	<1.0	
T-1,2 DICHLOROETHYLENE	<1.0	

00E-DOR-06899 **Continued from Previous Page, Sample Number: 00E-DOR-06899**

VINYL ACETATE	<5.0
1,1-DICHLOROETHANE	<1.0
22 DICHLOROPROPANE	<1.0
METHYL ETHYL KETONE	<5.0
CIS 12 DICHLOROETHYLENE	<1.0
BROMOCHLOROMETHANE	<1.0
CHLOROFORM	<1.0
111 TRICHLOROETHANE	<1.0
CARBON TETRACHLORIDE	<1.0
11-DICHLOROPROPENE	<1.0
BENZENE	<1.0
1,2-DICHLOROETHANE	<1.0
TRICHLOROETHYLENE	<1.0
12 DICHLOROPROPANE	<1.0
DIBROMOMETHANE	<1.0
BROMODICHLOROMETHANE	<1.0
METHYL ISOBUTYL KETONE	<1.0
2-CHLOROETHYLVINYL ETHER	<5.0
CIS 1,3-DICHLOROPROPENE	<1.0
TOLUENE	<1.0
TRANS-13 DICHLOROPROPENE	<1.0
1,1,2-TRICHLOROETHANE	<1.0
2-HEXANONE	<1.0
TETRACHLOROETHYLENE	<1.0
13-DICHLOROPROPANE	<1.0
CHLORODIBROMOMETHANE	<1.0
ETHYLENE DIBROMIDE	<1.0
MONOCHLOROBENZENE	<1.0
1,1,1,2TETRACHLOROETHANE	<1.0
ETHYL BENZENE	<1.0
TOTAL XYLENES	<1.0
STYRENE	<1.0
ISOPROPYL BENZENE	<1.0
BROMOFORM	<1.0
BROMOBENZENE	<1.0
1122 TETRACHLOROETHANE	<1.0
123 TRICHLOROPROPANE	<1.0
N-PROPYLBENZENE	<1.0
O-CHLOROTOLUENE	<1.0
P-CHLOROTOLUENE	<1.0
135 TRIMETHYLBENZENE	<1.0
TERT-BUTYLBENZENE	<1.0
124 TRIMETHYLBENZENE	<1.0
SEC-BUTYLBENZENE	<1.0
M-DICHLOROBENZENE	<1.0
123 TRIMETHYLBENZENE	<1.0
P ISOPROPYLTOLUENE	<1.0
P-DICHLOROBENZENE	<1.0
O-DICHLOROBENZENE	<1.0
N-BUTYL BENZENE	<1.0

00E-DOR-06899 **Continued from Previous Page, Sample Number: 00E-DOR-06899**

DIBROMOCHLOROPROPANE	<2.0
124 TRICHLOROBENZENE	<1.0
HEXACHLOROBUTADIENE	<1.0
NAPHTHALENE	<2.0
123 TRICHLOROBENZENE	<1.0
--SURROGATE RECOVERY	%RECOV
D4 1,2-DICHLOROETHANE	103.1
1,4-DIFLUOROBENZENE	101.3
D5-CHLOROBENZENE	100.5
1,2-DICHLOROBENZENE-D4	115.2
ANALYSIS DATE	10/16/00

Summary of Notations used in Reporting Analytical Results:

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Note: Results below the advisory limit, including < and K are considered satisfactory for that parameter.

Analyst: QC:

If we can be of further assistance to you, Please Call us at 287-1712, and ask for the Organics Section.

...State Street Augusta, ME ... CHAIN OF RECORD (Revised 6/99)

NO: 028011

9104

Sample date (YY/MM/DD): 00/10/13

Project Name: Old Town Landfill

Sampler: Barski / Holden / Smith

Do you want all project results sent together? yes (no)

Appropriation/Activity:

Town/County: Old Town / Penobscot

Send Results to: (full address) Ted Wolfe DEP #17 SHS

Bill to: (full address) SAME

Client comments: Please Test PH/cond

Custody Record:

Relinquished by:	Received by:	Date/Time

Is this a DEP PROJECT (circle)? (yes) no

Analysis Requested:

location	Time	Client #	HETL #	Matrix (Soil / Water / Air / Neat)	Preservative	Duplicate	VOC: PPV 8260	VOC: MBTEX-MS	VOC: TSM	VOC: TSN 524.2	SVOC: DRO	SVOC: ABN 8270	SVOC: PAH 8270	SVOC: Pest 8081	SVOC: PCB 8081	SVOC: TO1 Herb	SVOC: Acids 8270	SVOC: Acid/Neutrals	SVOC: TCLP Org	SVOC: Base/Neutrals	INORGANICS: 8 RCRA Metals	INORGANICS: Total P	INORGANICS: TCLP Metals	other
MW-102A	1330	✓	DOE-DOR-06898	Water		X	X																	
MW-102B	1330	✓	DOE-DOR-06553		X	X	X																	
MW-105A	1200	✓	DOR-06896			X	X																	
MW-107A	1200	✓	DOR-06899			X	X																	
MW-102A	1330	NO/TOC's ✓	DIN-04477 ✓																					Test F DEP
MW-102B	1330	w/TOC 2cc ✓	DIN-04140 ✓																					Test F
MW-105A	1200	w/TOC 1cc ✓	DIN-04927 ✓																					Test F
MW-107A	1200	w/TOC 2cc ✓	DIN-04131 ✓																					Test F

white copy – HETL shipping room yellow copy – HETL section supervisor pink copy – HETL analyst gold copy – retained by sampler

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SAMPLE DEMOGRAPHICS AND LOCATION DATA:

Project Name OLD TOWN LANDFILL **Project Number** 9104

Collection Date 10/13/2000 **Print Date** 12/04/00

Sample Location
OLD TOWN

Additional Comments
REC'D 2 TOC'S

Summary of Notations used in Reporting Analytical Results:

J= Approximately L= Greater Than K= Less Than NA= Not Analyzed
RL= Reporting Limit, the lowest concentration which can be reliably reported on a routine basis
ND= Not Detected Down to the Reporting Limit (RL)

If we can be of further assistance to you, Please Call us at 287-1712, and ask for the Inorganics Section.

ANALYTICAL RESULTS:

QC Review:

HETL Sample Number 00E-DIN-04131 **User Number:**
Analysis Validation Date 12/01/00 MW107A

Sample Matrix	Sample Type	Sampled by
WATER		BENESKI

All Units are expressed as PPM, Parts Per Million

Analytical Test	Results
TOTAL COLIFORM	0
E COLI	0
NITRITE	K.01
NITRATE	4.92 - MCL 10
SODIUM	110 - MCL 20 - exceeds Standard
CALCIUM	170 - [illegible]
MAGNESIUM	68 - [illegible]
IRON	0.04
MANGANESE	0.023
ARSENIC	0.009

TOTAL DISSOLVED SOLIDS	1240 elevated
AMMONIA NITROGEN	K.01
TOTAL CHLORIDE	107 - elevated
BARIUM	0.084
POTASSIUM	23 - elevated
CADMIUM	ND0.0005
CHROMIUM	ND 0.001
LEAD	ND 0.003
MERCURY	ND.0002
TOTAL ORGANIC CARBON	2.0
ALKALINITY	294 elevated
SULFATE	460 elevated
pH	7.3
CONDUCTIVITY	1780J elevated
Comment	TOC WAS DONE AT BINAX/NEL BY METHOD EPA 415.1.
Comment	NOTE: "J" MEANS "ESTIMATED RESULT."

HETL Sample Number 00E-DIN-04140 User Number:
Analysis Validation Date 12/01/00 MW102B ✓
Sample Matrix: WATER Sample Type: Sampled by: BENESKI

Analytical Test	Results
TOTAL COLIFORM	3
E COLI	0
NITRITE	K.01
NITRATE	K.2
SODIUM	7.3
CALCIUM	18
MAGNESIUM	14 - elevated
IRON	2.0
MANGANESE	0.37
ARSENIC	0.004
TOTAL DISSOLVED SOLIDS	140
AMMONIA NITROGEN	.07
TOTAL CHLORIDE	6
BARIUM	0.002
POTASSIUM	1.7
CADMIUM	ND0.0005
CHROMIUM	ND 0.001
LEAD	ND 0.003
MERCURY	ND.0002
TOTAL ORGANIC CARBON	K1
ALKALINITY	116
SULFATE	2
pH	8.0
CONDUCTIVITY	242
Comment	TOC WAS DONE AT BINAX/NEL BY METHOD EPA 415.1.

All Units are expressed as PPM, Parts Per Million

HETL Sample Number 00E-DIN-04477 User Number:
Analysis Validation Date 12/01/00 MW102A
Sample Matrix: WATER Sample Type: Sampled by: BENESKI

Analytical Test	Results	All Units are expressed as PPM, Parts Per Million
TOTAL COLIFORM	0	
E COLI	0	
NITRITE	K.01	
NITRATE	.41	
SODIUM	8.3	
CALCIUM	49	
MAGNESIUM	20	elevated
IRON	0.66	
MANGANESE	0.59	MCL 0.5 exceeds standard
ARSENIC	ND 0.003	
TOTAL DISSOLVED SOLIDS	210	
AMMONIA NITROGEN	.18	
TOTAL CHLORIDE	6	
BARIUM	0.010	
POTASSIUM	5.5	
CADMIUM	ND0.0005	
CHROMIUM	ND 0.001	
LEAD	ND 0.003	
MERCURY	ND.0002	
TOTAL ORGANIC CARBON	1.5	
ALKALINITY	210	
SULFATE	2	
pH	7.5	
CONDUCTIVITY	382	
Comment		TOC WAS DONE AT BINAX/NEL BY METHOD EPA 415.1.

HETL Sample Number 00E-DIN-04822 User Number:
Analysis Validation Date 12/01/00 MW105A
Sample Matrix: WATER Sample Type: Sampled by: BENESKI

Analytical Test	Results	All Units are expressed as PPM, Parts Per Million
TOTAL COLIFORM	0	
E COLI	0	
NITRITE	K.01	
NITRATE	K.2	
SODIUM	140	MCL 20 exceeds standard
CALCIUM	57	elevated
MAGNESIUM	34	elevated
IRON	0.06	
MANGANESE	0.013	
ARSENIC	ND 0.003	
TOTAL DISSOLVED SOLIDS	680	Secondary MCL 500 exceeds standard
AMMONIA NITROGEN	K.01	
TOTAL CHLORIDE	25	
BARIUM	0.013	

POTASSIUM	9.0 - elevated
CADMIUM	ND0.0005
CHROMIUM	ND 0.001
LEAD	ND 0.003
MERCURY	ND.0002
TOTAL ORGANIC CARBON	3.8
ALKALINITY	345 - elevated
SULFATE	170
pH	7.7
CONDUCTIVITY	1080.00 - elevated
Comment	TOC WAS DONE AT BINAX/NEL BY METHOD EPA 415.1.

Visit our Web Site at: www.state.me.us/dhs/etl

MAINE HEALTH AND ENVIRONMENTAL TESTING LABORATORY
221 State Street, Station #12
Department of Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716
Fax. No. 207-287-6832

HETL

Office Use Only:
DIN
DEPP
TO BE BILLED

INORGANICS SECTION REPORT

To:

TED WOLFE
DEP SHS 17

COPY

Test Request Codes:

TSFDEP
Appropriation Number:
DEP-

Please Retain This Report for your Invoice Records.

SAMPLE DEMOGRAPHICS AND LOCATION DATA:

Project Name OLD TOWN LANDFILL **Project Number** 9118

Collection Date 10/16/2000 **Print Date** 12/04/00

Sample Location
OLD TOWN

Summary of Notations used in Reporting Analytical Results:

J= Approximately L= Greater Than K= Less Than NA= Not Analyzed
RL= Reporting Limit, the lowest concentration which can be reliably reported on a routine basis
ND= Not Detected Down to the Reporting Limit (RL)

If we can be of further assistance to you, Please Call us at 287-1712, and ask for the Inorganics Section.

ANALYTICAL RESULTS:

QC Review:

HETL Sample Number 00E-DIN-04142 User Number:
Analysis Validation Date 12/01/00 104A ✓
Sample Matrix Sample Type Sampled by
WATER

All Units are expressed as PPM, Parts Per Million

Analytical Test	Results	
TOTAL COLIFORM	0	
E COLI	0	
NITRITE	K.01	
NITRATE	K.2	
SODIUM	130	meets 20 exceeds standard
CALCIUM	49	exceeds
MAGNESIUM	20	exceeds
IRON	0.54	
MANGANESE	3.5	meets 0.5 exceeds standard
ARSENIC	0.003	
TOTAL DISSOLVED SOLIDS	740	meets 500 exceeds standard
AMMONIA NITROGEN	.01	
TOTAL CHLORIDE	35	

BARIUM	0.058
POTASSIUM	5.5
CADMIUM	ND0.0005
CHROMIUM	0.002
LEAD	0.005
MERCURY	ND.0002
TOTAL ORGANIC CARBON	5.4
ALKALINITY	640 - elevated
SULFATE	26
pH	6.7
CONDUCTIVITY	1230.00 - elevated
Comment	TOC WAS DONE AT BINAX/NEL BY METHOD EPA 415.1.

HETL Sample Number 00E-DIN-04481 User Number:

Analysis Validation Date 12/01/00 104B ✓

Sample Matrix Sample Type Sampled by

WATER

Analytical Test	Results	All Units are expressed as PPM, Parts Per Million
TOTAL COLIFORM	38	
E COLI	0	
NITRITE	K.01	
NITRATE	1.76	
SODIUM	30	MCL 20 exceeds standard
CALCIUM	42	elevated
MAGNESIUM	10	elevated
IRON	0.07	
MANGANESE	2.08	MCL 0.5 Exceeds Standard
ARSENIC	ND 0.003	
TOTAL DISSOLVED SOLIDS	270	
AMMONIA NITROGEN	.09	
TOTAL CHLORIDE	35	
BARIUM	0.013	
POTASSIUM	3.4	
CADMIUM	ND0.0005	
CHROMIUM	ND 0.001	
LEAD	0.003	
MERCURY	ND.0002	
TOTAL ORGANIC CARBON	1.7	
ALKALINITY	149 - elevated	
SULFATE	12	
pH	5.8	
CONDUCTIVITY	403	
Comment	TOC WAS DONE AT BINAX/NEL BY METHOD EPA 415.1.	

Visit our Web Site at: www.state.me.us\dhs\etl

00E-DOR-06942

MAINE HEALTH AND ENVIRONMENTAL
TESTING LABORATORY
221 State Street, Station #12
Department of Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716
Fax. No. 207-287-6832

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To:

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DEP SHS 17

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Test Request Codes:

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SAMPLE DEMOGRAPHICS AND LOCATION DATA:

Project Name OLD TOWN LANDFILL Project Number 911S

Collection Date 10/16/2000 Print Date 10/18/00

Sample Location
104A OLD TOWN

ANALYTICAL RESULTS:

HETL Sample Number 00E-DOR-06942 User Number:

Analysis Validation Date 10/18/00

Sample Matrix
WATER

Sample Point

Sampled by

Analytical Test	Results	Units
VOLATILES IN WATER-8260		
< = LESS THAN REPORTING LIMIT.		ug/L
NON-TARGET COMPOUND(S) DETECTED.		
CHLORODIFLUOROMETHANE AND ETHYL ETHER, NQ.		
DICHLORODIFLUOROMETHANE	<1.0	
CHLOROMETHANE	<1.0	
VINYL CHLORIDE	<1.0	
BROMOMETHANE	<1.0	
CHLOROETHANE	1.5	
TRICHLOROFLUOROMETHANE	<1.0	
FREON 113	<1.0	
ACETONE	<5.0	
1,1-DICHLOROETHYLENE	<1.0	
DICHLOROMETHANE	<1.0	
CARBON DISULFIDE	<1.0	
MTBE	<1.0	
T-1,2 DICHLOROETHYLENE	<1.0	
VINYL ACETATE	<5.0	
1,1-DICHLOROETHANE	1.2	

00E-DOR-06942 Continued from Previous Page, Sample Number: 00E-DOR-06942

22 DICHLOROPROPANE	<1.0
METHYL ETHYL KETONE	<5.0
CIS 12 DICHLOROETHYLENE	<1.0
BROMOCHLOROMETHANE	<1.0
CHLOROFORM	<1.0
111 TRICHLOROETHANE	<1.0
CARBON TETRACHLORIDE	<1.0
11-DICHLOROPROPENE	<1.0
BENZENE	<1.0
1,2-DICHLOROETHANE	<1.0
TRICHLOROETHYLENE	<1.0
12 DICHLOROPROPANE	<1.0
DIBROMOMETHANE	<1.0
BROMODICHLOROMETHANE	<1.0
METHYL ISOBUTYL KETONE	<1.0
2-CHLOROETHYLVINYL ETHER	<5.0
CIS 1,3-DICHLOROPROPENE	<1.0
TOLUENE	<1.0
TRANS-13 DICHLOROPROPENE	<1.0
1,1,2-TRICHLOROETHANE	<1.0
2-HEXANONE	<1.0
TETRACHLOROETHYLENE	<1.0
13-DICHLOROPROPANE	<1.0
CHLORODIBROMOMETHANE	<1.0
ETHYLENE DIBROMIDE	<1.0
MONOCHLOROBENZENE	<1.0
1,1,1,2TETRACHLOROETHANE	<1.0
ETHYL BENZENE	<1.0
TOTAL XYLENES	<1.0
STYRENE	<1.0
ISOPROPYL BENZENE	<1.0
BROMOFORM	<1.0
BROMOBENZENE	<1.0
1122 TETRACHLOROETHANE	<1.0
123 TRICHLOROPROPANE	<1.0
N-PROPYLBENZENE	<1.0
O-CHLOROTOLUENE	<1.0
P-CHLOROTOLUENE	<1.0
135 TRIMETHYLBENZENE	<1.0
TERT-BUTYLBENZENE	<1.0
124 TRIMETHYLBENZENE	<1.0
SEC-BUTYLBENZENE	<1.0
M-DICHLOROBENZENE	<1.0
123 TRIMETHYLBENZENE	<1.0
P ISOPROPYLTOLUENE	<1.0
P-DICHLOROBENZENE	<1.0
O-DICHLOROBENZENE	<1.0
N-BUTYL BENZENE	<1.0
DIBROMOCHLOROPROPANE	<2.0
124 TRICHLOROBENZENE	<1.0

00E-DOR-06942	Continued from Previous Page, Sample Number: 00E-DOR-06942
HEXACHLOROBUTADIENE	<1.0
NAPHTHALENE	<2.0
123 TRICHLOROBENZENE	<1.0
--SURROGATE RECOVERY	%RECOV
D4 1,2-DICHLOROETHANE	98.4
1,4-DIFLUOROBENZENE	102.5
D5-CHLOROBENZENE	97.7
1,2-DICHLOROBENZENE-D4	107.8
ANALYSIS DATE	10/17/00

Summary of Notations used in Reporting Analytical Results:

NC= Not Confirmed NQ= Not Quantitated NA= Not Analyzed J= Approximately
RL= Reporting Limit, the lowest concentration which can be reliably reported on a routine basis
<= Less than K= Indicates a possible, non-confirmed trace level below the RL
Note: Results below the advisory limit, including < and K are considered satisfactory for that parameter.

Analyst: QC:

If we can be of further assistance to you, Please Call us at 287-1712, and ask for the Organics Section.

Visit our Web Site at: www.state.me.us\dhs\etl

00E-DOR-06953

MAINE HEALTH AND ENVIRONMENTAL
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221 State Street, Station #12
Department of Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716
Fax. No. 207-287-6832

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To:

TED WOLFE
DEP SHS 17

Test Request Codes:

PPVW

Appropriation Number:
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Please Retain This Report for your Invoice Records.

SAMPLE DEMOGRAPHICS AND LOCATION DATA:

Project Name OLD TOWN LANDFILL
Project Number 9118
Collection Date 10/16/2000
Print Date 10/18/00
Sample Location
104B
OLD TOWN

ANALYTICAL RESULTS:

HETL Sample Number 00E-DOR-06953
User Number:
Analysis Validation Date 10/18/00
Sample Matrix
WATER
Sample Point
Sampled by

Analytical Test	Results	Units
VOLATILES IN WATER-8260		
< = LESS THAN REPORTING LIMIT.		ug/L
NON-TARGET COMPOUND(S) DETECTED.		
CHLOROFLOUROMETHANE AND ETHYL ETHER, NQ.		
DICHLORODIFLUOROMETHANE	<1.0	
CHLOROMETHANE	<1.0	
VINYL CHLORIDE	<1.0	
BROMOMETHANE	<1.0	
CHLOROETHANE	<1.0	
TRICHLOROFLUOROMETHANE	<1.0	
FREON 113	<1.0	
ACETONE	<5.0	
1,1-DICHLOROETHYLENE	<1.0	
DICHLOROMETHANE	<1.0	
CARBON DISULFIDE	<1.0	
MTBE	<1.0	
T-1,2 DICHLOROETHYLENE	<1.0	
VINYL ACETATE	<5.0	
1,1-DICHLOROETHANE	<1.0	

00E-DOR-06953 Continued from Previous Page, Sample Number: 00E-DOR-06953

22 DICHLOROPROPANE	<1.0
METHYL ETHYL KETONE	<5.0
CIS 12 DICHLOROETHYLENE	<1.0
BROMOCHLOROMETHANE	<1.0
CHLOROFORM	<1.0
111 TRICHLOROETHANE	<1.0
CARBON TETRACHLORIDE	<1.0
11-DICHLOROPROPENE	<1.0
BENZENE	<1.0
1,2-DICHLOROETHANE	<1.0
TRICHLOROETHYLENE	<1.0
12 DICHLOROPROPANE	<1.0
DIBROMOMETHANE	<1.0
BROMODICHLOROMETHANE	<1.0
METHYL ISOBUTYL KETONE	<1.0
2-CHLOROETHYLVINYL ETHER	<5.0
CIS 1,3-DICHLOROPROPENE	<1.0
TOLUENE	<1.0
TRANS-13 DICHLOROPROPENE	<1.0
1,1,2-TRICHLOROETHANE	<1.0
2-HEXANONE	<1.0
TETRACHLOROETHYLENE	<1.0
13-DICHLOROPROPANE	<1.0
CHLORODIBROMOMETHANE	<1.0
ETHYLENE DIBROMIDE	<1.0
MONOCHLOROBENZENE	<1.0
1,1,1,2TETRACHLOROETHANE	<1.0
ETHYL BENZENE	<1.0
TOTAL XYLENES	<1.0
STYRENE	<1.0
ISOPROPYL BENZENE	<1.0
BROMOFORM	<1.0
BROMOBENZENE	<1.0
1122 TETRACHLOROETHANE	<1.0
123 TRICHLOROPROPANE	<1.0
N-PROPYLBENZENE	<1.0
O-CHLOROTOLUENE	<1.0
P-CHLOROTOLUENE	<1.0
135 TRIMETHYLBENZENE	<1.0
TERT-BUTYLBENZENE	<1.0
124 TRIMETHYLBENZENE	<1.0
SEC-BUTYLBENZENE	<1.0
M-DICHLOROBENZENE	<1.0
123 TRIMETHYLBENZENE	<1.0
P ISOPROPYLTOLUENE	<1.0
P-DICHLOROBENZENE	<1.0
O-DICHLOROBENZENE	<1.0
N-BUTYL BENZENE	<1.0
DIBROMOCHLOROPROPANE	<2.0
124 TRICHLOROBENZENE	<1.0

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00E-DOR-06953	Continued from Previous Page, Sample Number: 00E-DOR-06953
HEXACHLOROBUTADIENE	<1.0
NAPHTHALENE	<2.0
123 TRICHLOROBENZENE	<1.0
--SURROGATE RECOVERY	%RECOV
D4 1,2-DICHLOROETHANE	96.6
1,4-DIFLUOROBENZENE	103.2
D5-CHLOROBENZENE	98.1
1,2-DICHLOROBENZENE-D4	109.6
ANALYSIS DATE	10/17/00

Summary of Notations used in Reporting Analytical Results:

NC= Not Confirmed NQ= Not Quantitated NA= Not Analyzed J= Approximately

RL= Reporting Limit, the lowest concentration which can be reliably reported on a routine basis

<= Less than K= Indicates a possible, non-confirmed trace level below the RL

Note: Results below the advisory limit, including < and K are considered satisfactory for that parameter.

Analyst: QC:

If we can be of further assistance to you, Please Call us at 287-1712, and ask for the Organics Section.

Mc 7
8.00

SPENCER, ZMISTOWSKI & MILLER
ATTORNEYS AT LAW
P O BOX 467 - 49 NORTH MAIN STREET
OLD TOWN, MAINE 04468-0467
(207) 827-4454
FACSIMILE (207) 827-3237

SARAH S. ZMISTOWSKI
ROBERT E. MILLER

BEVERLY W. SPENCER, RETIRED
CHARLES O. SPENCER, (1947-1993)

October 23, 1995

Mr. Chellis Sanborn
R R #1 Box 194
Old Town, ME 04468

Dear Mr. Sanborn:

Enclosed please find an appraisal report prepared by The Sherwood Group for your property on the Bennoch Road. Please review the report carefully. Please note the appraiser has concluded that your residential property has a market value of $70,000. After you have had an opportunity to review the appraisal, I would like to meet with you to discuss the possible purchase of your property by the City of Old Town. In addition, if you disagree with any of the information in the appraisal report or any conclusions reached, I would be happy to discuss them with you further.

Very truly yours,

Robert E. Miller
Attorney at Law

REM/tg
Enclosure
File #90000.172

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

ANGUS S. KING, JR.
GOVERNOR

MARTHA KIRKPATRICK
COMMISSIONER

December 7, 2000

Mr. Paul Mazacaro, City Manager
City of Old Town
51 North Brunswick Street
Old Town, Maine 04468-1497

Re: Closed Landfill Inspection

Dear Mr. Mazacaro:

On October 13 & 16, 2000 Department of Environmental Protection staff visited the closed Old Town municipal landfill located on the Bennoch Road and collected water samples from selected on-site monitoring wells as part of the inspection process that was initiated in June.

Following a delay, these results have just been received by the DEP. I have enclosed the results for both the inorganic parameters and the volatile organic compounds (VOC) for your review. I have made note of contaminants that are considered to be elevated and those that exceed the Maine Maximum Exposure Guideline (MEG).

Our sample results indicate that no significant problem from volatile organic compound (VOC) was detected. Many of the inorganic parameters have no health-based standards established. In some instances, sodium and manganese exceeded the MEG and total dissolved solids exceeded the secondary maximum contaminant level (MCL) standard. Several other parameters, including calcium, magnesium, chloride, potassium alkalinity, sulfate, and conductivity have no established standards but were noted as "elevated". Although these results confirm the landfill's impact to groundwater, this impact is not unusual given the size of the site nor are these levels considered excessive compared to other landfills in the state.

Of particular note were the low levels of arsenic detected that did not exceed MEG standards, especially in monitoring wells 102 A&B and 104 A&B. These two sets of monitoring wells are in close proximity to the Sanborn residential well. Analysis of water samples from the Sanborn well has shown that both arsenic and manganese exceeded MEG standards. Unfortunately, the time period between sampling the Sanborn

AUGUSTA
17 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0017
(207) 287-7688
RAY BLDG., HOSPITAL ST.

BANGOR
106 HOGAN ROAD
BANGOR, MAINE 04401
(207) 941-4570 FAX: (207) 941-4584

PORTLAND
312 CANCO ROAD
PORTLAND, MAINE 04103
(207) 822-6300 FAX: (207) 822-6303

PRESQUE ISLE
1235 CENTRAL DRIVE, SKYWAY PARK
PRESQUE ISLE, MAINE 04769-2094
(207) 764-0477 FAX: (207) 760-3143

well and the landfill wells was too great for us to determine if this difference is significant.

The site appears to be in good condition at this time. The Town should continue with its post closure monitoring program and correlate data between monitoring wells 102 A&B, 104 A&B, and the Sanborn well, paying particular attention to arsenic and manganese.

If you have any concerns or questions, please contact me at (207) 287-8552.

Sincerely,

Theodore E. Wolfe
Landfill Closure and Remediation Program
Division of Remediation
Bureau of Remediation and Waste Management

Cc: Charles Sanborn

chellis sanborn

From: "Wolfe, Theodore E" <Theodore.E.Wolfe@maine.gov>
To: <peacove@roadrunner.com>
Cc: <david.wight@old-town.org>; "Birk, Robert G" <Robert.G.Birk@maine.gov>
Sent: Thursday, July 31, 2008 11:36 AM
Subject: response to phone conversation 7-30-08

Mr. Sanborn,

Thanks for your call Wednesday morning. I spent most of that morning looking through files trying to come up with some answers that will address your concerns expressed during our phone conversation.

First, you made reference to a letter that I supposedly wrote in 1994. If you have a copy of this letter, I'd like to see it. I didn't start working in the landfill program until late November 1994. It's doubtful I would have written anything concerning this site during the first month especially since I had Roy Krout handling the site as the project manager. I didn't find anything with my signature until a letter to the town in June of 2000 that I wrote concerning a site inspection I conducted earlier that month.

In looking through the files, I tried to reconstruct a history based on the information I could locate. The DEP first began discussion about a closure with the city in the early 1990's. In 1993, the DEP hired Robert G. Gerber, Inc. to complete a Phase II evaluation of the site. This evaluation included the installation of groundwater monitoring wells at the landfill in order to investigate groundwater conditions. Lead, arsenic and volatile organic compounds (VOCs) were all analyzed during this investigation. Low levels of lead were noted that were near the State's Maximum Exposure Guideline (MEG) and below the Federal Maximum Contaminant Level (MCL) except in one leachate sample were it exceeded both the MEG and MCL. Low levels of arsenic were detected in the monitoring wells that were below both the State MEG and the Federal MCL. Lead and arsenic were consequently not considered to be a significant issue at the site. VOCs were sampled. Although we found some scattered readings, all were low level and did not exceed any of the guidelines. The site was eventually closed in 1996 with a higher grade composite cover system. Consequently, when the city's consultant later developed a post closure sampling plan they followed the Maine Solid Waste Rules for minimum monitoring requirements for detection parameters at closed landfills. These requirements did not require lead, arsenic or VOCs in the list of sampling parameters. The DEP approved this sampling plan in 1997. Post closure sampling in 1998 however did include arsenic at your home. Arsenic was found at 17 parts per billion, slightly above the Maine MEG of 10 parts per billion but below the Federal MCL of 50 parts per billion. Manganese was also found at levels above the Maine MEG in your well. The city sampled your well again in August 2000 and found arsenic at 19 parts per billion, very similar to the reading in 1998. Manganese was also above state MEG standards in your well.

On May 17, 2000 I spoke with you on the phone regarding your water quality issues. During this conversation you requested a filtration system for your home water supply. On June 7, 2000 I sampled your water. Results indicated you had manganese as well as arsenic (at 21 ppb) which were above state MEG standards. VOCs and lead were included in the sampling parameters but results indicated that neither was detected. In my letter to you on August 25th, regarding these results, I stated that I thought the landfill was the most likely source of manganese and arsenic. I also suggested that you use bottled water for cooking and drinking but that your water was acceptable for other uses.

My inspection letter to the city on June 19, 2000 requested that the city forward me any missing post closure sampling results for 1999. In October 2000, I had staff from the DEP sample selected landfill monitoring wells, including the wells closest to your house as a follow-up to my inspection of the landfill. Low levels of lead and arsenic were noted but were not above state MEG guidelines. Arsenic in the landfill wells was actually lower than what was found in your well. Manganese was above the state MEG. Two hits of VOCs at very low levels were noted. None came close to the state MEG standards.

Sometime in the early spring of 2001, the City had Norlen's Water Treatment install a treatment system at your home for $2,750. The State reimbursed 90% of this cost to the City.

Looking back over this information some of your questions from Wednesday's phone conversation can be answered. As a result of the 1993 DEP assessment lead, arsenic and VOCs were not identified as a major problem at the Old Town landfill, regardless of the types of waste that may have been disposed of there during

the course of its operation. Because of this information, the post closure sampling plan proposed by the City's consultant seemed appropriate, met the requirements of Maine Solid Waste Rules and was therefore approved by the DEP. This sampling plan is still appropriate.

The landfill closed in 1996 with a cover system to maximize the ability of the site to shed water and prevent infiltration of water through the waste. Our records indicate that this closure process cost the city $1,340,000 with the state providing a $1,005,000 cost reimbursement.

You do have arsenic and manganese in your water. Historically, your arsenic levels are only slightly above state MEG guidelines and are higher than any arsenic levels previously noted in the landfill monitoring wells. There are many residential wells in Maine with arsenic in the 100's parts per billion with no landfill nearby. Your well could be influenced by the landfill, but to obtain a more definite answer as to which contaminants might be from the landfill and which might be naturally occurring from the rock structure in which your well was constructed, would require additional studies with no guarantee of success.

The City provided you with a treatment system that you requested. This system is sampled periodically, has proven to be effective if properly maintained and is the appropriate method to deal with your water quality issues. This system does need to be inspected periodically on a regular basis and may at times need maintenance. I have spoken with David White at the Old Town Public Works Department and he recognizes the importance of regular maintenance inspections. If the landfill was definitively identified as the source of the manganese and arsenic in your well, the treatment system would still be the likely course of action.

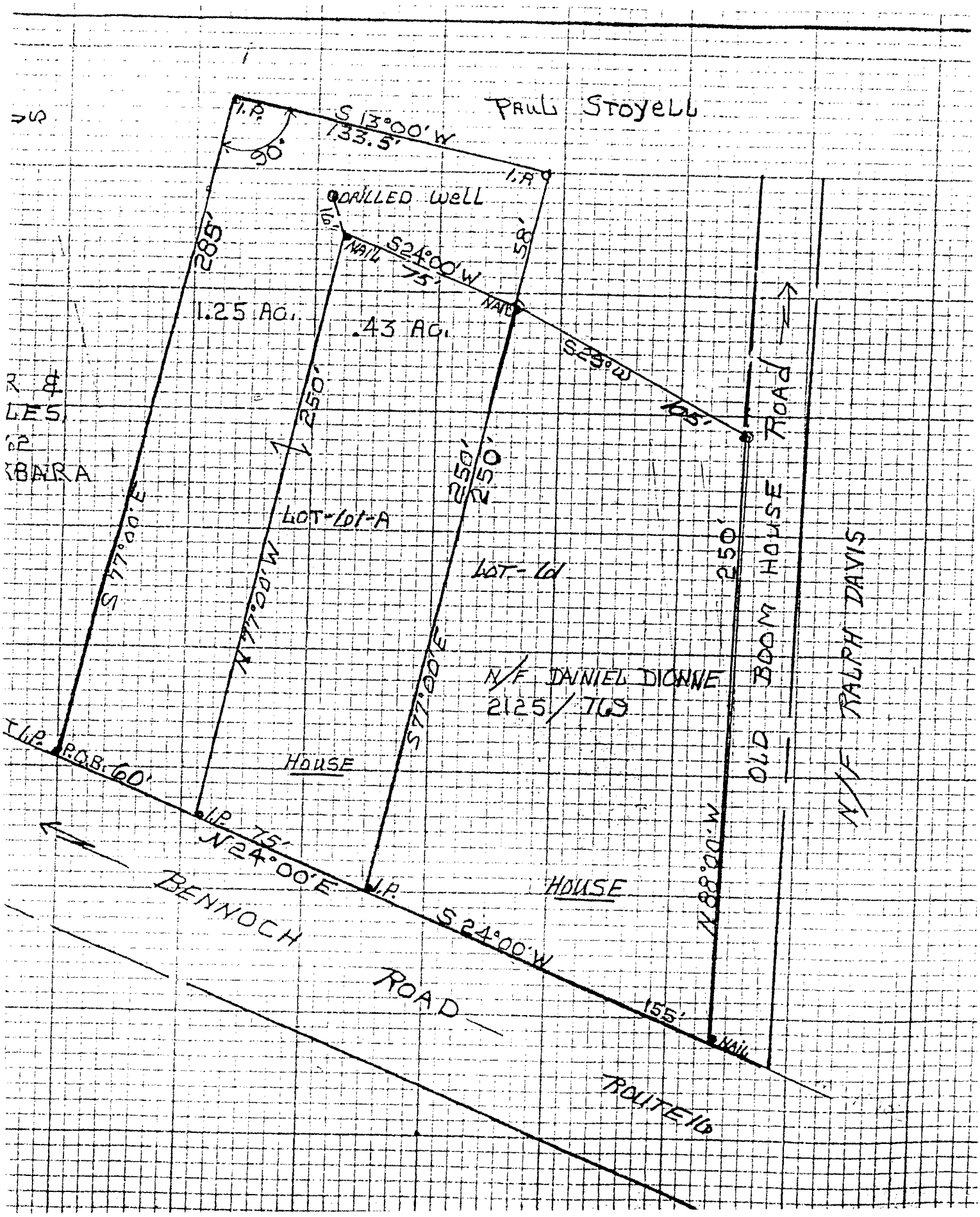
The lead that was recently identified in the sample collected from your water system was higher than the historical information noted in landfill monitoring wells. As you are aware, the DEP has requested that a sample be collected directly from your well thus avoiding any of the equipment associated with the water system (pump, piping, treatment system, etc.). Once we have that information we can identify if any other action is advisable.

The City has been conducting post closure sampling approved by the DEP. It appears that they did miss sampling in 2003, 2004 and 2006. Occasionally errors and problems develop that result in missed sampling rounds. This has occasionally occurred at other sites too. I believe the city is back on track and we expect to receive sampling reports on a regular scheduled basis.

I hope this information provides an answer to your questions that we discussed on Wednesday.

Regards,

Ted Wolfe
Division of Remediation
Maine Dept. of Environmental Protection
17 State House Station
Augusta, Maine 04333-0017
tel. (207) 287-8552


PAUL STOYELL
I.P.
S 13°00' W
133.5'
90°
I.P.
DRILLED WELL
16'
NAIL
S 24°00' W
75'
NAIL
58'
285'
1.25 AC.
.43 AC.
S 23° W
105'
ROAD
250'
250'
250'
LOT-1
LOT-1-A
LOT-1d
S 77°00' E
N 77°00' W
S 77°00' E
N/F DANIEL DIONNE
2125/109
OLD BOOM HOUSE
250'
N 88°00' W
N/F RALPH DAVIS
I.P.
P.O.B. 60'
HOUSE
I.P.
75'
N 24°00' E
I.P.
HOUSE
S 24°00' W
155'
NAIL
BENNOCH ROAD
ROUTE 16

0' 50' 100'

SCALE 1" = 100'

N MAG. E

W

199

STATE OF MAINE
FORREST
A.
SMART
219
REGISTERED
LAND SURVEYOR

8-10-92

Forrest A. Smart

N/F AR
FREDA
TAX MAP-L
NOW- PAUL &
STOY E

R.O.W.

POST

635'

— PROPERTY SURVEY —
CHELIS G. & NEDDINE F. SANBORN.
AUGUST 10, 1992 - OLD TOWN, ME.
— PENOBSCOT COUNTY —
REFERENCE: BOOK 2359 — 169.
ALL LINES TARED, AND IRON PINS.

Robert G. Gerber, Inc.
a Jacques Whitford Company
Consulting Engineers and Environmental Scientists
174 South Freeport Road
Freeport, ME U.S.A. 04032-9118
Tel: 207 865 9138
Fax: 207 865 1071

July 2, 1996
file 1534

John Ellis, Director of Public Works
City of Old Town
51 North Brunswick Street
Old Town, ME 04468

Subject: Review of Additional Water Quality Data, Sanborn Well

Dear Mr. Ellis:

You have requested that Robert G. Gerber, Inc., assist the City by reviewing additional water quality data from the Sanborn well for the purpose of assessing the potential influence of the City's landfill on the well. We are doing this work with your verbal authorization under the terms of the contract we negotiated with the City in 1992. By using this letter, you agree to pay reasonable charges for our work.

We reviewed your periodic sampling and reported in a letter dated March 22 that, for the parameters tested, the water quality at the Sanborn well remained acceptable. Further discussion of the data is contained in that letter. We recommended that the well be re-sampled for volatile organic parameters to confirm that these contaminants are not present in the well water.

You collected a sample for analysis by EPA 524.2, Drinking Water VOC's. This test looks for a wide variety of synthetic organic compounds that are often associated with landfills and industrial operations.

No compounds tested were detected in this sample, with the exception of Methylene Chloride, which is most likely a lab contaminant, and is identified as such on the analysis sheet. This analysis, coupled with the findings of the earlier testing, suggest that the landfill is not having a significant adverse effect on water quality in the Sanborn well.

We recommend that, as a precautionary measure, you sample the Sanborn well quarterly, and that Sodium be added to the current suite of analytes. In addition to this basic testing, we recommend that you test the well annually for EPA 524.2 VOC

compounds. If any of the indicator parameters shows a significant increase, the status of the well should be re-considered. Should concentrations remain stable, the Sanborn well should continue to be acceptable for domestic use. Water quality data should be reviewed annually by a qualified professional. We would be pleased to assist you in this area, should you wish.

Please give me a call if you have questions.

Sincerely,

Robert G. Gerber, I

STATE OF MAINE ANDREWS L. TOLMAN 1458 GEOLOGIST

Andrews L. Tolman, C.G. 1458
Principal Hydrogeologist

file 1534OT02.LET

Katahdin

Post-it® Fax Note 7671	Date 7/5/96	# of pages ▶ 6
To Bob Millet	From John Ellis	
Co./Dept.	Co.	
Phone #	Phone #	
Fax #	Fax #	

June 27, 1996

Mr. John Ellis
City of Old Town
51 N. Brunswick St.
Old Town, ME 04468

RE: Katahdin Lab Number: WM1180
Project ID: Drinking Water
Project Manager: Mr. Richard L. Wellman
Sample Receipt Date: June 12, 1996

Dear Mr. Ellis:

Please find enclosed the following information:

* Report of Analysis
* Confirmation
* Chain of Custody

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

Deborah J. Nadeau
Authorized Signature

6·28·96
Date

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

310 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3556

Karahdin

CLIENT: JOHN ELLIS
CITY OF OLD TOWN
51 N BRUNSWICK ST
OLD TOWN, ME 04468

Lab Number : NM-1180-1
Report Date: 06/27/96
PO No. : 0170
Project : SANBORN WELL

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SANBORN WELL	Aqueous	J ELLIS	06/11/96	06/12/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Drinking Water Volatile Organics by USEPA 524.2								1,2
Dichlorodifluoromethane	<10	µg/L	1.0	10	EPA 524.2	06/18/96	DW	
Chloromethane	<1	µg/L	1.0	1	EPA 524.2	06/18/96	DW	
Vinyl chloride	<1	µg/L	1.0	1	EPA 524.2	06/18/96	DW	
Bromomethane	<1	µg/L	1.0	1	EPA 524.2	06/18/96	DW	
Chloroethane	<1	µg/L	1.0	1	EPA 524.2	06/18/96	DW	
Trichlorofluoromethane	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
1,1-Dichloroethene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
Methylene chloride	JB0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
trans-1,2-Dichloroethene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
1,1-Dichloroethane	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
Cis-1,2-Dichloroethene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
2,2-Dichloropropane	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
Chloroform	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

(2) A result reported with a "B" qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of Methylene Chloride in the method blank was J0.4 ug/L.

06/27/96

LJO/jcbeaw/kmh/lp(dw)

Katahdin

CLIENT: JOHN ELLIS
CITY OF OLD TOWN
51 N BRUNSWICK ST
OLD TOWN, ME 04468

Lab Number : WW-1180-1
Report Date: 06/27/96
PO No. : 0170
Project : SANBORN WELL

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SANBORN WELL	Aqueous	J ELLIS	06/11/96	06/12/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromochloroethane	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
1,1,1-Trichloroethane	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
1,2-Dichloroethane	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
1,1-Dichloropropene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
Carbon tetrachloride	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
Benzene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
1,2-Dichloropropane	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
Trichloroethene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
Dibromomethane	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
Bromodichloromethane	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
cis-1,3-Dichloropropene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
Toluene	<1.0	µg/L	1.0	1.0	EPA 524.2	06/18/96	DW	
trans-1,3-Dichloropropene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
1,1,2-Trichloroethane	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
1,3-Dichloropropane	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

06/27/96

LJO/jchesw/kwh/lp(dw)

340 Cottage Road No. 5 210 West Road No. 5, Portsmouth, NH 03801

Karatdin

CLIENT: JOHN ELLIS
CITY OF OLD TOWN
51 N BRUNSWICK ST
OLD TOWN, ME 04468

Lab Number : WK-1180-1
Report Date: 06/27/96
PO No. : 0170
Project : SANBORN WELL

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SANBORN WELL	Aqueous	J ELLIS	06/11/96	06/12/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibromochloromethane	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
Tetrachloroethene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
1,2-Dibromoethane	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
Chlorobenzene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
1,1,1,2-tetrachloroethane	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
Ethylbenzene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
m-Xylene/p-Xylene	<1.0	µg/L	1.0	1.0	EPA 524.2	06/18/96	DW	
Bromoform	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
o-Xylene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
Styrene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
1,1,2,2-Tetrachloroethane	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
1,2,3-Trichloropropane	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
Isopropylbenzene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
Bromobenzene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
2-Chlorotoluene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

06/27/96

LJO/jcbeau/kwh/lp(dw)

00000004

Katahdin

CLIENT: JOHN ELLIS
CITY OF OLD TOWN
51 N BRUNSWICK ST
OLD TOWN, ME 04468

Lab Number : 96-1180-1
Report Date: 06/27/96
PO No. : 0170
Project : SANBORN WELL

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SANBORN WELL	Aqueous	J ELLIS	06/11/96	06/12/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
n-Propylbenzene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
4-Chlorotoluene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
1,3,5-Trimethylbenzene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
tert-Butylbenzene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
1,2,4-Trichlorobenzene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
sec-Butylbenzene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
1,3-Dichlorobenzene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
4-Isopropyltoluene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
1,4-Dichlorobenzene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
1,2-Dichlorobenzene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
n-Butylbenzene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
1,2-Dibromo-3-chloropropane	<5	µg/L	1.0	5	EPA 524.2	06/18/96	DW	
1,2,4-Trimethylbenzene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	
Naphthalene	<1.0	µg/L	1.0	1.0	EPA 524.2	06/18/96	DW	
Hexachlorobutadiene	<0.5	µg/L	1.0	0.5	EPA 524.2	06/18/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

06/27/96

LJO/jcbeaw/kwh/lp(dw)

[illegible] Wire Road No. 1, Portsmouth, NH 03801

Katahdin

CLIENT: JOHN ELLIS
CITY OF OLD TOWN
51 N BRUNSWICK ST
OLD TOWN, ME 04468

Lab Number : ME-1180-1
Report Date: 06/27/96
PO No. : 0170
Project : SANBORN WELL

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
SANBORN WELL	Aqueous	J ELLIS	06/11/96	06/12/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2,3-Trichlorobenzene	<1.0	µg/L	1.0	1.0	EPA 524.2	06/18/96	DW	
p-Bromofluorobenzene (% Recovery)	107.	%	1.0		EPA 524.2	06/18/96	DW	
1,2-Dichlorobenzene-d4	93.	%	1.0		EPA 524.2	06/18/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

06/27/96

LJO/jcbeaw/kwh/lp(dw)

28801

15

SPENCER, ZMISTOWSKI & MILLER
ATTORNEYS AT LAW
P.O. BOX 467 - 49 NORTH MAIN STREET
OLD TOWN, MAINE 04468-0467

SARAH S. ZMISTOWSKI
ROBERT E. MILLER

(207) 827-4454
FAX (207) 827-3237

BEVERLY W. SPENCER
RETIRED
CHARLES O. SPENCER
(1947-1993)

November 1, 1996

Edmond J. Bearor, Esq.
Rudman & Winchell
P.O. Box 1401
Bangor, ME 04402-1401

Re: Chellis Sanborn

Dear Ed:

John Ellis, Public Works Director, informed me yesterday that the City has decided to take still another sample. The last sample got delayed in the mail, and the testing company felt it was too old to make a reliable test.

John has agreed to take a sample on Monday and will Federal Express it to the lab on the same date. The lab has agreed to expedite the testing, and we expect the results by the end of next week.

I'm sorry for the delay, but we wanted to make sure that we had reliable test results before going further.

Please call me if you have any questions.

Very truly yours,

Robert E. Miller
Attorney at Law

REM/jh
cc: John Ellis
File #90000.172

LAW OFFICES

RUDMAN & WINCHELL
84 HARLOW ST.
P. O. BOX 1401
BANGOR, MAINE 04402-1401

207 947-4501
TELECOPY 207 941-9715

GERALD E. RUDMAN
PHILLIP D. BUCKLEY
MICHAEL P. FRIEDMAN
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PAUL W. CHAIKEN
DAVID C. KING
JOHN W. McCARTHY
FRANK T. McGUIRE
BRUCE C. MALLONEE
PAUL H. SIGHINOLFI
WILLIAM H. HANSON
GEORGE P. EATON II
EDITH A. RICHARDSON
MICHAEL M. McALEER
BRETT D. BABER
BARBARA A. CARDONE
ROBERT E. MURRAY, JR.
EDMOND J. BEAROR
CURTIS E. KIMBALL
JANE E. SKELTON
BRENT A. SINGER
KAREN D. KEMBLE
LEIGH McCARTHY

ABRAHAM M. RUDMAN
(1896-1970)

ALBERT H. WINCHELL, JR.
(1924-1992)

November 5, 1996

Mr. and Mrs. Chellis C. Sanborn
RR 1, Box 194
Old Town, ME 04468

RE: Bennoch Road Property/City of Old Town, Maine

Dear Chellis and Neddine:

Enclosed is a copy of a letter I received on Monday, November 4, 1996 from Bob Miller. If my understanding of the letter is correct, the City came by on Monday, November 4, 1996 to take another water sample. It is not clear to me whether the City is having its laboratory test the water for the suite of parameters which we had requested recently. In any event, if the sample has been taken, Mr. Miller expects to have the results by the end of next week, i.e., by November 15. I will keep you posted.

Sincerely,

Edmond J. Bearor

EJB/pl
Encl.

40269/28808

STATE OF MAINE

DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF REMEDIATION AND WASTE MANAGEMENT

M E M O R A N D U M

TO: Bob Birk, Project Manager
Division of Remediation
Bureau of Remediation and Waste Management

FROM: Dick Bennett, Environmental Hydrogeology Specialist - GE#342
Division of Technical Services
Bureau of Remediation and Waste Management

DATE: May 1, 2012

RE: Old Town's Closed Municipal Landfill
Recommended revisions to the current Environmental Monitoring Program

****

I have recently completed a review of the available groundwater quality data for Old Town's Closed Municipal Landfill. The roughly 10 acre landfill is located east of the Bennoch Road near the confluence of Pushaw Stream and the Stillwater River. The current Environmental Monitoring Plan, implemented by S.W. Cole on behalf of the City of Old Town, consists of six monitoring wells and two residential water supplies. A water treatment system within the Sanborn residence requires the collection of pre-treatment and post-treatment samples. All of the sampling locations are depicted on Figure 1.

The primary purpose of this memorandum is to outline a series of recommendations to improve the current EMP for the closed landfill. I expect the expanded parameter list will help the Department evaluate any primary or secondary impacts landfill leachate may have on the neighboring residential water supplies.

Water Quality Summary

Groundwater quality data for several monitoring wells located adjacent to the closed landfill demonstrate landfill related contaminants continue to degrade groundwater quality in the immediate vicinity of the landfill. By some measures recent data indicates MW-107 is the most significantly contaminated monitoring well at this landfill. Although landfill related contaminants persist, the groundwater quality observed in the

vicinity of Old Town's closed landfill is similar to many of Maine's closed unlined municipal landfills.

The Mann-Kendall statistical trend analysis identified two or more decreasing parameter trends in five of the six monitoring wells (Table 1). The time series graphs depicted on Figure 2 graphically illustrate visually distinct contaminant reductions in three of the six monitoring wells. For example, several parameters in MW-105A, including specific conductance, sodium and sulfate, have steadily decreased since the late 1990s. The passage of time and capping the buried municipal solid waste with a low permeability cover system has apparently significantly reduced the volume of precipitation moving through the waste and is most likely largely responsible for the noted improvements in groundwater quality.

The current EMP includes two residential water supplies. I understand, at the City's expense, Norlen's Water Treatment, LLC installed and maintains a water treatment system in the Sanborn residence. This treatment system was installed to reduce the concentrations of arsenic and manganese to acceptable levels. The slightly elevated chloride concentration coupled with the relatively consistent low dissolved oxygen, suggests the presence of arsenic and manganese is related to the landfill.

The second water supply, the Stoyell well, is located north of Sanborn's home and about 740 feet north of the landfill (Figure 1). During the past ten years several parameters have steadily increased in this water supply (i.e., chloride, sodium and specific conductance). The increasing trends are visually apparent on the time series graphs (Figure 2) and confirmed with the statistical analysis (Table 3). Specific conductance values have exceeded 1,000 µS/cm three times during the past two years. In Maine, under natural conditions specific conductance in bedrock groundwater rarely exceeds 700 µS/cm. In addition, in recent years the dissolved oxygen concentrations in the Stoyell water supply have dropped below 2.0 mg/L. I do not know the cause of the observed water quality changes but the landfill must certainly be considered a potential source. The revised parameter list outlined in the recommendation section below will help us evaluate the potential source(s).

Recommendations

1) It will be necessary to revise the existing parameter list. Table 2 includes the current parameter list and the proposed revised parameter list for both the monitoring wells and the residential water supplies. The proposed list eliminates three parameters (i.e., chemical oxygen demand, lead and total hardness) and includes eight additional parameters. As noted in the table, I expect bromide and methane will only be necessary for the next two rounds. We have found the additional parameters are often significantly elevated in landfill leachate and are

therefore often valuable indicators of landfill related contamination.

I have recommended the removal of lead from the parameter list with an understanding that lead has occasionally been detected, most notably, in the Sanborn's water supply. Given lead's limited solubility and relative absence in groundwater immediately adjacent to the landfill, I do not believe lead represents a likely landfill related contaminant.

2) As previously noted, the current monitoring program includes two residential water supplies and six monitoring wells (Table 3). Ultimately my goal is to reduce the number of monitoring wells included in the program. To help offset the increased analytical cost for the revised program, I suggest the revised program retain four of the original six wells. However, to determine the appropriate four wells to retain in the program I recommend initially sampling all six monitoring wells for the revised parameter list. Table 3 identifies my preliminary recommendations. I anticipate the analytical results from a single sampling round will enable the project team to choose an appropriate subset of monitoring wells for the revised environmental monitoring program.

3) For more than five years S.W. Cole has conducted the sampling twice each year. It is my understanding that beginning this year the City of Old Town increased the sampling frequency to quarterly. Admittedly, I am not certain if this applies to both the residential water supplies and the monitoring wells or only the residential wells. Regardless, I am not certain the quarterly sampling is technically justified at this landfill.

In recent years the Department has recommended a reduction in sampling frequency at many closed landfills. Although the appropriate sampling frequency is dependent on site specific conditions, we have frequently recommended reducing sampling frequency from three to twice or in some instances to annual sampling. While increasing the parameter list is technically justified, I do not believe increasing the monitoring frequency is technically justified.

attachments

Email: Richard Heath
Dave Burns

SPENCER, ZMISTOWSKI & MILLER
ATTORNEYS AT LAW
P O BOX 467 - 49 NORTH MAIN STREET
OLD TOWN, MAINE 04468-0467
(207) 827-4454
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SARAH S. ZMISTOWSKI
ROBERT E. MILLER

BEVERLY W. SPENCER, RETIRE
CHARLES O. SPENCER, (1947-199

May 24, 1996

Edmond J. Bearor, Esq.
Rudman & Winchell
P.O. Box 1401
Bangor, Maine 04402-1401

Re: City of Old Town - Chellis Sanborn Property

Dear Ed:

In response to your recent request for testing results, I have obtained the enclosed letters which were sent to Charles Heinonen, City Code Enforcement Officer. Mr. Heinonen is out of town this week.

It is my understanding that Robert G. Gerber, Inc. did the original testing on the landfill site at the time the DEP was handling the closeout. In his letter of May 16, 1996, Mr. Tolman included an analysis of the Dionne well and the Stoyell well, together with a table showing the results which included the Sanborn well.

As indicated previously, the City plans to monitor the water quality of the Sanborn well for the indefinite future. The City plans to include in its analysis all of the recommended recommendations of the consultant, including the EPA 8240 test.

The March 22, 1996 letter includes an analysis of the Sanborn well, as well as a graph. The consultant concludes that the water in the Sanborn well should continue to be monitored, but that it is their opinion the current record leads to a conclusion that the water is fit for domestic use.

I believe you have all of the testing information to which the consultant made reference in his consultations with your client. Please call me if you have any questions.

Very truly yours,

Robert E. Miller
Attorney at Law

REM/sh
Encs.
cc: Charles Heinonen, Code Enforcement Officer
Ron Singel, City Manager

Robert G. Gerber, Inc.
a Jacques Whitford Company
Consulting Engineers and Environmental Scientists
174 South Freeport Road
Freeport, ME U.S.A. 04032-6115
Tel: 207 865 6139
Fax: 207 865 1071

March 22, 1996
file 1534

Charles Heinonen, Planner
City of Old Town
51 North Brunswick Street
Old Town, ME 04468

Subject: Review of Water Quality Data, Sanborn Well

Dear Mr. Heinonen:

You have requested that Robert G. Gerber, Inc., assist the City by reviewing available water quality data from the Sanborn well for the purpose of assessing the potential influence of the City's landfill on the well. We are doing this work with your verbal authorization under the terms of the contract we negotiated with the City in 1992. By using this letter, you agree to pay reasonable charges for our work.

John Ellis, Public Works Director, provided water quality data from 1995 and 1996 to add to our historical sampling in 1993 and 1994. A table summarizing that data is attached to this letter. The recent samples were analyzed for an indicator parameter suite, so the blank spaces in the table represent parameters not tested. We have plotted the concentrations of Manganese, Chloride, and Hardness over time; a copy of that graph is attached to this letter.

For the parameters tested, the water quality at the Sanborn well remains acceptable. Traces of arsenic continue to be present in the well. The concentrations are consistent over time, and are approximately 1/20 of the EPA's Maximum Contaminant Level (MCL). Low levels of Arsenic are present in ground water over much of Maine, and are unlikely to be associated with operations at the landfill. Metals concentrations (Iron, Manganese, and Copper) do not show any trend or represent a change from normal values in the area.

Hardness and Chloride show an apparent increasing trend. Both remain at acceptable levels. Existing information does not link the increase in these two parameters directly to the landfill. However, these small but consistent increases suggest that the water feeding the well is becoming increasingly mineralized. It is possible that the landfill may be associated with these changes in water chemistry. A more complete analysis of the water, including both the suite listed on the table and volatile organic compounds (EPA 8240), might shed some light on the genesis of this

trend.

Nothing in the current analyses indicates that the water is unsafe for normal domestic use. The analyses performed were not comprehensive, and it is possible that other constituents could be present. We suggest that the City consider sampling for the suite mentioned above, and that it would be prudent to continue negotiations for purchase of the Sanborn property, at a mutually agreeable price, as a preventative measure. Please give me a call if you have questions.

Sincerely,

Robert G. Gerber, Inc.

Andrews L. Tolman, C.G.
Principal Hydrogeologist

enc.

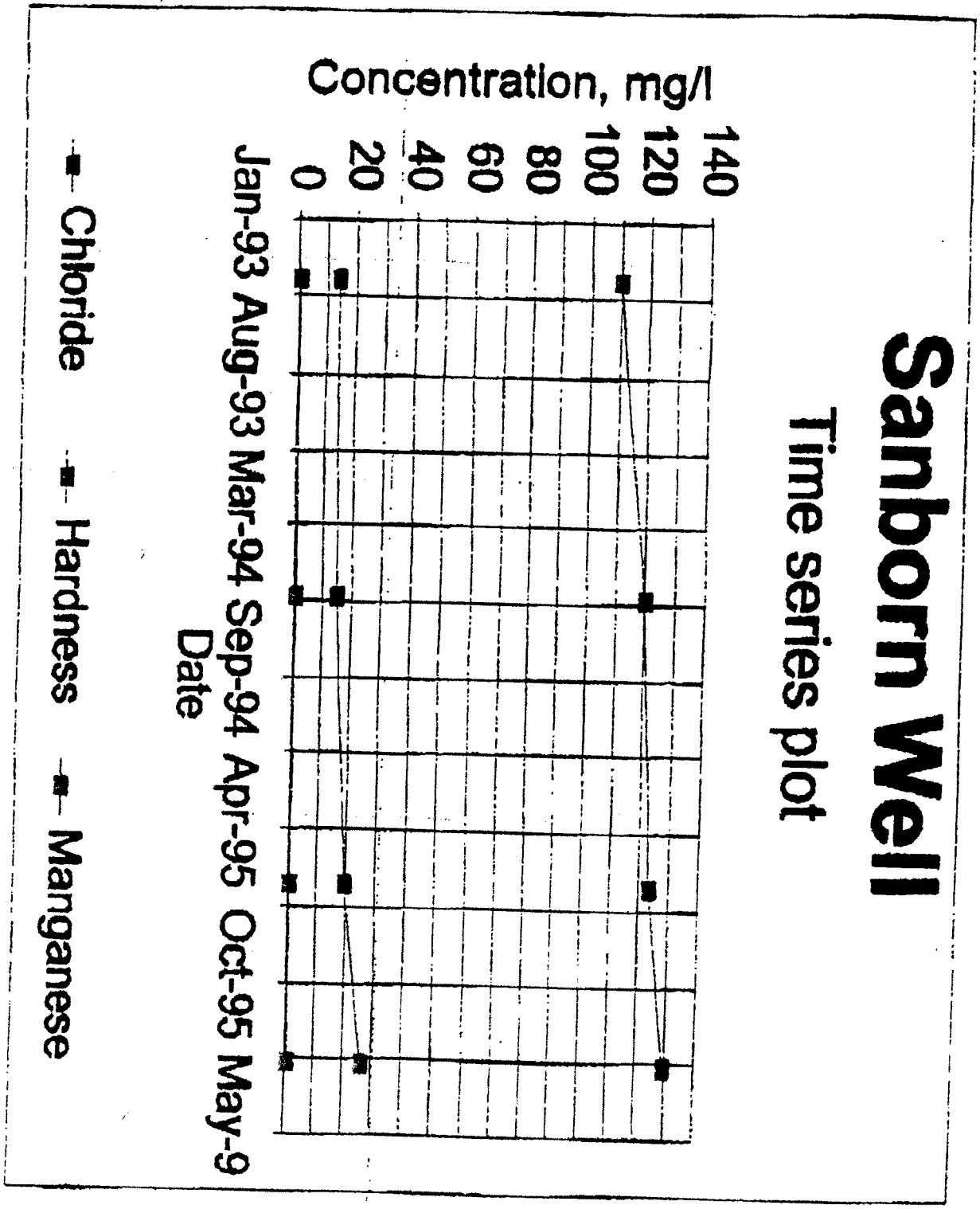
file 1534OTS.LET

Sanborn Well
Water Quality Data
1993-1996

Well #	Date	Total Al (mg/L)	Total As (mg/L)	Total Ba (mg/L)	Total Cd (mg/L)	Total Ca (mg/L)	Total Cr (mg/L)	Total Cu (mg/L)	Total Fe (mg/L)	Total Pb (mg/L)	Total Mg (mg/L)	Total Mn (mg/L)	Total Hg (mg/L)	Total Ni (mg/L)
USEPA MCL		0.05*	0.05	5	0.005**	—	0.1**	1.3**	0.3*	0.02**	—	0.05*	0.002**	0.15@
Maine MEG		1.43		1.5	0.005		0.1			0.02		0.2	0.002	0.15
	10/01/90		ND			23			0.9	ND	13	1		
Sanborn	04/20/93	<0.10	0.022	0.026	<0.010	21	<0.015	<0.025	0.13	<0.005	13	0.51	<0.20	<0.040
	06/10/94	<0.10	0.026	0.041	<0.010	24	<0.015	<0.025	0.25	<0.005	16	0.75	<0.20	<0.040
	06/21/95		0.028					<0.020	0.6			0.6		
	02/12/96		0.023					<0.020	0.08			0.72		

Well #	Date	Total K (mg/L)	Total Se (mg/L)	Total Ag (mg/L)	Total Na (mg/L)	Bicarb (HCO3) (mg/l)	COD (mg/L)	Cl (mg/L)	Cu (mg/L)	Hardness CaCO3 (mg/L)	Nitrate (mg/L)	Ammoni (mg/L)	Sulfate (mg/L)
USEPA MCL		—	0.05***	0.09*	20**		131@@	250#	0.018#		10		250*
Maine MEG			0.01	0.05					0.154		10		
	10/01/90				7		ND	12		110	0.5	0.71	3
Sanborn	04/20/93	3.8	<0.005	<0.015	8.5	110	16	14	<20	110	<0.050	<0.10	4.3
	06/10/94	3.2	<0.005	<0.015	9.5	120	<15	15	<20	120	<0.050	<0.10	1.7
	06/21/95							19.6		123.6	<0.020		
	02/12/96							26.3		129.5	<0.020		

Notes:
MCL = Maximum Contaminant Level
MEG = Maine Maximum Exposure Guidelines
* USEPA secondary MCL
** recommended USEPA MCL
— no toxicity concerns noted (except possibly at very high levels)
@ USEPA Guidance Level
\# established for taste considerations rather than toxicity.
\#\# USPHS recommended levels
\#\# USPHS recommended levels
Other parameters detected in 6/10/94 sampling:
Methylene Chloride = JB4 ug/l


Sanborn Well
Time series plot
Concentration, mg/l
0
20
40
60
80
100
120
140
Jan-93 Aug-93 Mar-94 Sep-94 Apr-95 Oct-95 May-9
Date
Chloride
Hardness
Manganese

Robert G. Gerber, Inc.
a Jacques Whitford Company
Consulting Engineers and Environmental Scientists

174 South Freeport Road
Freeport, ME U.S.A. 04032-8115

Tel: 207 865 6138
Fax: 207 865 1071

May 16, 1996
file 1534

Charles Heinonen, Secretary
Planning Board
City of Old Town
51 North Brunswick Street
Old Town, ME 04468

Subject: Old Town Landfill

Dear Mr. Heinonen:

Robert G. Gerber, Inc. (Gerber) has been working with the City of Old Town and Maine DEP for the past several years conducting hydrogeologic assessments of the City's landfill as part of the closure process. We have performed a multi-phase evaluation of the site hydrogeology and ground water quality. Our evaluation focussed on developing recommendations for closure through the evaluation of risks to nearby residents and the environment.

You requested that we provide you with a summary of all the residential sampling. Attached is a summary table and a copy of our 1994 Residential well testing report, which includes some interpretations of analyses. If the City wishes to re-sample the Sanborn well, we recommend that the suite include Sodium, as well as the parameters you have been testing for recently, and that it also include a scan for Volatile Organics (EPA 8240) to see whether either chlorinated organics or gasoline components might be present. This would assist in evaluating whether the water quality in the well could be associated with the landfill, or possibly with other activities in the area.

Please give me a call if you have questions or need more information.

Sincerely,

Robert G. Gerber, Inc.

Andrews L. Tolman, C.G.
Principal Hydrogeologist

enc.

Dionne Well
Water Quality Data

Well #	Date	Total Al (mg/L)	Total As (mg/L)	Total Ba (mg/L)	Total Cd (mg/L)	Total Ca (mg/L)	Total Cr (mg/L)	Total Cu (mg/L)	Total Fe (mg/L)	Total Pb (mg/L)	Total Mg (mg/L)	Total Mn (mg/L)	Total Hg (mg/L)	Total Ni (mg/L)
USEPA MCL		0.05*	0.05	5	0.005**	--	0.1	1.0*	0.3*	0.02**	--	0.05*	0.002	0.1
Maine MEG		1.43		1.5	0.005		0.1			0.02		0.2	0.002	0.11
	10/01/90					13			0.5		13	[illegible]		
Dionne	04/20/95	0.26	<0.005	<0.005	<0.010	6.5	<0.015	0.12	0.25	0.008	2.1	<0.010	<0.20	<0.040
(dug well)	06/05/95	<0.10	<0.005	<0.005	<0.010	44	<0.015	0.17	0.048	0.025	5.6	0.018	<0.20	<0.040
Dionne	03/17/94							<0.05	34.2			8.52		
(BR well)	06/10/94	<0.10	0.053	0.077	<0.010	85	<0.015	<0.025	23	<0.005	44	9.4	<0.20	<0.040

Well #	Date	Total K (mg/L)	Total Se (mg/L)	Total Ag (mg/L)	Total Na (mg/L)	Bicarb (HCO3) (mg/L)	COD (mg/L)	Cl (mg/L)	Cu (mg/L)	Hardness CaCO3 (mg/L)	Nitrate (mg/L)	Ammonia (mg/L)	Sulfate (mg/L)	Nitrite (mg/L)
USEPA MCL		--	0.05	0.05*	20**			250*	[illegible]		10		250*	
Maine MEG			0.04	0.05					0.154		10			
	10/01/90				3		ND	8		52	0.6	0.07	3	
Dionne	04/20/95	0.29	<0.005	<0.015	23	20	<15	23	<20	26	<0.050	<0.10	5.8	
(dug well)	09/09/93	0.51												
Dionne	02/17/94				66.8			48		148	<0.05			<0.05
(BR well)	06/10/94	3.8	<0.005	<0.015	71	480	30	55	<20	370	<0.050	0.34	4.1	

Well #	Date	Dissolved Al (mg/L)	Dissolved As (mg/L)	Dissolved Ba (mg/L)	Dissolved Cd (mg/L)	Dissolved Ca (mg/L)	Dissolved Cr (mg/L)	Dissolved Cu (mg/L)	Dissolved Fe (mg/L)	Dissolved Pb (mg/L)	Dissolved Mg (mg/L)	Dissolved Mn (mg/L)	Dissolved Hg (mg/L)	Dissolved Ni (mg/L)
USEPA MCL		0.05*	0.05	5	0.005**	--	0.1	1.0*	0.3*	0.02**	--	0.05*	0.002	0.1
Maine MEG		1.43		1.5	0.005		0.1			0.02		0.2	0.002	0.15
Dionne	06/10/94	<0.10	0.11	0.061	<0.010	83	<0.015	<0.025	23	<0.005	46	9.4	<0.20	<0.040

Well #	Date	Dissolved K (mg/L)	Dissolved Se (mg/L)	Dissolved Ag (mg/L)	Dissolved Na (mg/L)
USEPA MCL		--	0.05	0.05*	20**
Maine MEG			0.04	0.05	
Dionne	06/10/94	4.1	<0.005	<0.015	76

Notes:
MCL = Maximum Contaminant Level
MEG = Maine Maximum Exposure Guidelines
* USEPA secondary MCL
** recommended USEPA MCL
-- no toxicity concerns noted (except possibly at very high levels)
@ USEPA Guidance Level
# established for taste considerations rather than toxicity.
@@ USPHS recommended levels
blanks indicate that the parameter was not tested for.
Other parameters detected in 6/10/94 sampling:
Methylene Chloride = 203 ug/l
1,1 Dichloroethane = 32 ug/l
Ethylbenzene = 13 ug/l

Stoyell Well
Water Quality Data
June - 1994

Well #	Date	Total Al (mg/L)	Total As (mg/L)	Total Ba (mg/L)	Total Cd (mg/L)	Total Cu (mg/L)	Total Cr (mg/L)	Total Cu (mg/L)	Total Fe (mg/L)	Total Pb (mg/L)	Total Mg (mg/L)	Total Mn (mg/L)	Total Hg (mg/L)	Total Ni (mg/L)
USEPA MCL		0.05*	0.05	5	0.005**	–	0.12**	1.3**	0.3*	0.02**	–	0.05*	0.002**	0.13@
Maine MEG		1.43		1.5	0.005		0.1			0.02		0.2	0.002	0.15
Stoyell	06/10/94	<0.10	<0.005	0.042	<0.010	18	<0.015	0.045	0.043	<0.005	8.7	0.024	<0.20	<0.040

Well #	Date	Total K (mg/L)	Total Se (mg/L)	Total Ag (mg/L)	Total Na (mg/L)	Bicarb (HCO3) (mg/L)	COD (mg/L)	Cl (mg/L)	Cu (ug/L)	Hardness CaCO3 (mg/L)	Nitrate (mg/L)	Ammoni (mg/L)	Sulfate (mg/L)
USEPA MCL		–	0.05***	0.09*	20**		131@@	250#	0.015##		10		250*
Maine MEG			0.01	0.05					0.154		10		
Stoyell	06/10/94	4.3	<0.005	<0.015	39	87	<15	59	<20	79	0.35	<0.10	6.2

Well #	Date	Dissolved Al (mg/L)	Dissolved As (mg/L)	Dissolved Ba (mg/L)	Dissolved Cd (mg/L)	Dissolved Cu (mg/L)	Dissolved Cr (mg/L)	Dissolved Cu (mg/L)	Dissolved Fe (mg/L)	Dissolved Pb (mg/L)	Dissolved Mg (mg/L)	Dissolved Mn (mg/L)	Dissolved Hg (mg/L)	Dissolved Ni (mg/L)
USEPA MCL		0.05*	0.05	5	0.005**	–	0.1	1.0*	0.3*	0.02**	–	0.05*	0.002	0.13@
Maine MEG		1.43		1.5	0.005		0.1			0.02		0.2	0.002	0.15
Stoyell	06/10/94	<0.10	0.005	0.048	<0.010	21	<0.015	<0.025	<0.025	<0.005	8.9	0.011	<0.20	<0.040

Well #	Date	Dissolved K (mg/L)	Dissolved Se (mg/L)	Dissolved Ag (mg/L)	Dissolved Na (mg/L)
USEPA MCL		--	0.05	0.09*	20**
Maine MEG			0.01	0.01	
Stoyell	06/10/94	4.8	<0.005	<0.015	44

Notes:
MCL = Maximum Contaminant Level
MEG = Maine Maximum Exposure Guidelines
* USEPA secondary MCL
** recommended USEPA MCL
– no toxicity concerns noted (except possibly at very high levels)
@ USEPA Guidance Level
# established for taste considerations rather than toxicity.
USPHS recommended levels
USPHS recommended levels
Other parameters detected in 6/10/94 sampling:
Methylene Chloride = 1B3 ug/l

TABLE 2C. RESIDENTIAL WATER QUALITY RESULTS

Well	Date	BOD (5 day)	Calc-Mass Hardness	Chloride	COD	Color (PCU)	Ammonia	Nitrate N	Sulfate	Total Phosphorus	TOC	TDS
Well #3												
	10/90	71	208	4	76	>70	0.06	0.38	120	0.043	340	38100
	5/93		880	24	ND		ND	ND	75			
	5/93(dup)											
Dierse												
	10/90	34.3	52	1	ND	ND	0.07	0.6	3	0.068	29	8
	4/93		26	3.3	ND		ND	ND	3.8			
	5/93		68	4.2	ND		ND	0.15	ND			
Siebern												
	10/90	11	110	12	ND	>70	0.71	0.3	3	0.190	115	ND
	4/93		116	14	16		<0.10	<0.05	4.5			
	5/93		138	16	ND		ND	ND	4.7			

Well	Date	TOC	Fec Coliform (/100ml)	Arsenic	Calcium	Iron	Lead	Magnesium	Manganese	Sodium	Temperature (Celsius)	Conductivity	pH
Well #3													
	10/90	7.4	0		78	1.1	ND	8.4	1.4	74	14.3	440	6.61
	5/93		100		190	1300	1.1	240	74	81	13.6	7	6.67
	5/93(dup)												
Dierse													
	10/90	0.7	200		15	ND	ND	3.5	ND	3	12.5	176	6.89
	4/93		28		6.5	0.12	0.008	2.1	ND	2.3	7.5	Sa	
	5/93		ND		14	0.048	0.005	5.6	0.011	4.7	12.2	98	6.98
Siebern													
	10/90	3.3	400	ND	23	0.9	ND	13	1	7	13	210	6.96
	4/93		ND	0.022	21	0.13	ND	13	0.51	8.5	8	1 PC	
	5/93		ND	0.024	25	0.25	ND	15	0.86	9.5	13.1	223	6.67

Units are (mg/l)

From 1993 report

MARCH 18, 2015
WEDNESDAY
Immediately following Public Services Comm. Mtg.

CITY OF OLD TOWN
ECONOMIC DEVELOPMENT COMMITTEE
AGENDA

City Hall-Council Chambers, 2nd Floor
265 Main Street, Old Town, Maine

1. **Call to Order** **(Please silence or turn off cell phones)**

2. **Airport Land Request:**

   The Committee will discuss a request to lease land at the Airport to construct a hangar on.

3. **Economic Development Activity**

   Economic Development Director Ron Harriman will provide a brief review of Economic Development Activities during the past year.

4. **Adjournment**

FUTURE AGENDA ITEMS
Grants
JRL Landfill Gas to Energy Project
Status of Current Projects
Strategic Planning Status Report

Note: The Economic Development Committee is composed of Councilors Nuttall (Chair), Roach, Peterson and Council President Mahan.

City of Old Town

Ronald F. Harriman
Economic Development Director
265 Main Street
Old Town, ME 04468

Tel.: (207) 947-8595
Fax: (207) 947-4353
Email: ronharriman5@gmail.com

Economic Development
Activity Summary

Tax Increment Financing

- Provided the LLC understanding of TIF advantages for tax savings and business attraction.
- Council has approved the TIF Guidelines.
- Created a new TIF Program that will save the City $112,000 annually.
- TIF materials have been submitted and approved by DECD.
- Assistance provide from Bill, Travis and Dave Russell and Patty.

Jefferson Street School

- Preparation and Advertising of RFP
- Building inspections eight prospective developers.
- Completed a Phase I Environmental Assessment.
- Obtained proposals for development from three firms.
- Received and analyzed three proposals from prospective buyers.
- Prepared Development Agreement for Council approval.

Downtown Planning

- Preparation of RFP for Downtown Planning proposals.
- Downtown Committee involved with every step; meetings, proposal review/interviews, outreach, public meetings, etc.
- Wright-Pierce is the consulting engineer firm.
- Held the first two public hearings for the downtown master plan.
- Advertised the hearing by meeting with newspapers and news channels, discussed with residents at voting polls, sent invitations to all nearby residents and businesses.
- Reviewed completed questionnaires and public input for project.
- The Planning Committee met to review the November Public Forum results. Six downtown business owners and the Public Works Director participated and shared their ideas, concerns and vision for the downtown.
- Initial concept plans for the reuse of the former Old Town Canoe site were presented and reviewed by the Committee.
-Held the second public forum on February 9, 2015. There was a good turn out and a lot of progress was made to create a tangible plan for the former Old Town Canoe Factory site.

- We prepared for this forum by distributing invitations to all Old Town committees and mailing invitations to any person with property in the target area. I made phone calls to Penobscot Indians to encourage their participation. I also notified the Penobscot Times and the Bangor Daily News and spoke with local news channels.

- Assembling information including gas infrastructure, sidewalks, crosswalks and public spaces.

- Inspection and evaluation of several downtown area buildings was also completed.

Business Recognition

- Initiated a business recognition program.

- The Mayor, City Manager and I have made presentations to four businesses using ceremonial paddles or canoes. Maine Savings, Riverside Pizza, Yama's and Dubay Auto Parts.

Website

- Researched all businesses for current contact information.

- Added hyperlinks to all business websites.

- Reviewed Assessor's Business List to ensure all are on website.

- Fixed all grammatical and spelling errors.

- Dated layout was difficult for users to navigate, and did not showcase important aspects of the site, such as business news, featured businesses, and available properties. - This Site now features latest news articles and up to date available properties.

- Additional links have been added. Business of the month is featured.

- Frequent updates to the site

- Updated the Featured Business section of the homepage.

- Updates include recent news stories.

Business Visits/Prospects

- On-going meetings with local business owners throughout the community to connect with business owners, identify concerns, and discuss plans.

- Actively working with several prospective new businesses to locate a suitable lot and/or existing building.

Sewall Company

- Meetings with company officials to access future needs.

- Discussion of potential assistance/incentive programs.

LLC

- Conduct regular monthly meetings of the LLC, including preparation of agenda and materials.

- LLC has facilitated creation of the recent TIF, redevelopment of the Jefferson School and Stillwater Avenue expansion.

OTO Fiber

- Approval of OTO Fiber Corporation documents. Coordinate with Orono and UMaine to obtain grant assistance and extend last mile fiber to provide high speed to the City.

Stillwater Avenue Expansion

- Initiated discussions with UMaine officials to sell land on Stillwater Avenue for commercial development.

- UMaine has agreed to proceed with sale of 30+ acres along Stillwater corridor to foster economic development.

Food Hub

- I serve as Old Town's representative on the food hub initiative. This is a collaborative effort with regional partners seeking to create a regional food hub. Grant assistance for first-phase data collection was received from Bangor Savings.

Bangor Region Development Alliance

- Serve as Old Town's representative on the Bangor Region Development Alliance.
- BRDA is currently conducting interviews of area business representatives to identify supply chain issues and help us to identify specific industries to target. Round table discussions with business leaders are part of this process

Airport Business Park

- Assisted with recent Hanger Lease Agreement to be used for new hanger construction.
- Worked with a commercial realtor (Dawson Realtors) to provide additional exposure and marketing for the lots available.
- The appearance has been improved by Public Works.
- A sign map with local contact information was placed on site.
- Listing agreement has been finalized. Signs will be installed and marketing efforts underway.
- Review of Hanger Lease Agreement and involvement in discussions to construct new hangers later this year.

Enterprise Park

- Revised Park concept completed by Sewall.
- Review of alternate access and phased development.
- Meeting held with UMaine officials to gauge interest and review concept.

Activity Involvement

- UMaine Fair participation includes flyers and banner to promote Old Town at event to welcome incoming students.
- Big Gig, participation in discussion and outreach with others in preparation of the Big Gig events. Old Town hosted a recent Gig event at the Boom House restaurant.
- Penobscot River Whitewater Nationals Regatta, involvement with representatives to organize this event to be held on the City's downtown waterfront.
- Housing Forum, State-wide housing forum to identify needs and eligibility criteria for MSHA allocation of funding and credits.

Business Loan Program

- Presently reviewing structure and terms of the City's program to improve effectiveness and reduce City's long-term responsibilities.

MAY 20, 2015
WEDNESDAY
Immediately following the Economic Development Comm. Mtg.

AGENDA
SPECIAL COUNCIL MEETING
City Council Chambers, 2nd Floor
265 Main Street-Old Town, Maine

I. **CALL TO ORDER (Please turn off or silence cell phones)**

II. **FLAG SALUTE**

III. **ROLL CALL**

IV. Approval of the Minutes.

V. **PETITIONS, COMMUNICATIONS AND CITIZENS' REQUESTS**

VI. **REPORTS**

- A. **Council President**
- B. **Standing Committees (Finance, Public, Administrative & Economic Services; Landfill, Legislative, Sewer, Airport & Housing sub-committees)**
- C. **City Councilors**
- D. **City Attorney**
- E. **Special Committees**
- F. **School Board Liaison**
- G. **City Manager**

VII. **CONSENT AGENDA**

VIII. **PUBLIC HEARINGS AND SECOND READING OF ORDINANCES**

IX. **OLD BUSINESS**

X. NEW BUSINESS

1. The City Council will consider issuance of Warrants for the June 9, 2015 Special Municipal Election.

   Suggested motion: Resolved, the Old Town City Council hereby approves issuance of Warrants for the June 9, 2015 Special Municipal Election.

   (Councilor McLeod)

1. The City Council will consider setting hours for the Registrar of Voters for the June 9, 2015 Special Municipal Election as presented in attachment #1 and recommended by the City Clerk.

   Suggested motion: Resolved, the Old Town City Council hereby approves setting hours for the Registrar of Voters for the June 9, 2015 Special Municipal Election as presented in attachment #1 and recommended by the City Clerk.

   (Councilor Roach)

XI. ADJOURNMENT

ATTACHMENT #1

CITY OF OLD TOWN

VOTER REGISTRATION HOURS

265 MAIN STREET

The Registrar of Voters will be at 265 Main Street to register new voters and correct the voting list. The dates are as follows:

JUNE 4 & 5, 2015 (Thursday & Friday)

8:00 A.M. TO 4:30 P.M.

JUNE 8, 2015 (Monday)

8:00 A.M. TO 4:30 P.M.

JUNE 9, 2015 - ELECTION DAY-DEPUTY REGISTRARS WILL BE AT THE POLLS AS WELL AS CITY HALL

7:00 A.M. TO 8:00 P.M.

REGISTRAR OF VOTERS:	**PATRICIA BROCHU**
DEPUTY REGISTRAR:	**VINA LOUNSBURY**
DEPUTY REGISTRAR:	**SHANNON MEISTER**
DEP UTY REGISTRAR:	**TABITHA KETCH**
DEPUTY REGISTRAR:	**NANCY BLANCHARD**

WARRANT FOR DISTRICT BUDGET MEETING
REGIONAL SCHOOL UNIT NO.34

To John Lodge, resident of Maine Regional School Unit #34 in the County of Penobscot and State of Maine:

GREETINGS: In the name of the State of Maine, you are hereby required to notify and warn the inhabitants of Maine Regional School Unit #34, in said County and State, qualified by law to vote in Regional School Unit #34 affairs, to meet at the **Old Town High School Cafeteria** in the City of Old Town on **May 27, 2015** at **7:00 o'clock** in the **evening**, then and there to act upon the following articles to wit:

Article I: To elect a moderator to preside at said meeting.

Article II: To see what sum the RSU#34 will authorize the Board of Directors to expend for **Regular Instruction**.

Explanation: *The Regular instruction account includes expenses directly related to classroom teaching and learning such as salaries for teachers, substitutes, para-professionals, classroom instructional equipment, materials, supplies and textbooks. Also included are expenses related to English Language Learners and Gifted and Talented / Chapter 104 Programs.*

PK-5 Regular Instruction	*$3,230,759.76*
6-8 Regular Instruction	*$1,485,643.59*
9-12 Regular Instruction	*$2,841,416.60*
English Language Learners Instruction	*$36,423.32*
Gifted & Talented / Chapter 104 Instruction	*$226,562.07*
Board of School Directors Recommend:	**$7,820,805.36**

Article III: To see what sum the RSU#34 will authorize the Board of Directors to expend for **Special Education.**

Explanation: *The Special Education accounts include expenses for direct support of Special Education Programs.*

K-5 Special Education:	*$1,354,875.45*
6-8 Special Education:	*$464,400.30*
9-12 Special Education:	*$727,018.92*
Special Education Administration:	*450,695.86*
Board of School Directors Recommend:	**$2,996,990.53**

Article IV: To see what sum the RSU#34 will authorize the Board of Directors to expend for **Career and Technical Education.**

Explanation: *The Career and Technical Education account includes all expenses directly related to Career and Technical (Vocational) Education Programs.*

United Technologies Center Assessment	*$145,598.28*
Vocational Co-operative Education position OTHS	*$ 27,506.66*

Board of School Directors Recommend: **$173,104.94**

Article V: To see what sum the RSU#34 will authorize the Board of Directors to expend for **Other Instruction.**

Explanation: *The Other Instruction account includes expenses for Co-Curricular and Extra-Curricular programs.*

Co-Curricular / Extra Curricular LMS	*$124,955.00*
Co-Curricular / Extra Curricular OTHS	*$431,438.66*

Board of School Directors Recommend: **$556,393.66**

Article VI: To see what sum the RSU#34 will authorize the Board of Directors to expend for **Student and Staff Support.**

Explanation: *The Student and Staff Support account includes expenses such as guidance, health (school nurses), libraries, staff training, student assessment and instructional technology.*

Guidance Services	*$436,583.18*
Library Services	*$305,234.37*
School Health	*$176,918.70*
Staff Training	*$187,426.99*
Student Assessment	*$78,353.74*
Instructional Technology	*$425,733.79*

Board of School Directors Recommend: **$1,610,250.77**

Article VII: To see what sum the RSU#34 will authorize the Board of Directors to expend for **System Administration.**

Explanation: *The System Administration account includes expenses for the Board of Directors, the Office of the Superintendent and Business Office functions.*

Board of Directors	*$66,088.00*
Office of the Superintendent	*$150,703.37*
Business Office Functions	*$194,672.42*

Board of School Directors Recommend: **$410,463.79**

Article VIII: To see what sum the RSU#34 will authorize the Board of Directors to expend for **School Administration.**

Explanation: *The School Administration account includes expenses for the direction and management of the individual schools.*

Alton Elementary School	*$96,416.60*
Viola Rand Elementary School	*$83,205.93*
Old Town Elementary School	*$316,030.03*
Leonard Middle School	*$221,578.41*
Old Town High School	*$402,395.41*

Board of School Directors Recommend: **$1,119,626.38**

Article IX: To see what sum the RSU#34 will authorize the Board of Directors to expend for **Transportation.**

Explanation: *The Transportation account includes expenses for the contracted service for busing of students to and from school each day and special education transportation services.*

Transportation Contract (to and from school)	*$522,580.00*
Special Transportation	*$ 28,500.00*
Homeless Transportation	*500.00*
Board of School Directors Recommend:	**$551,580.00**

Article X: To see what sum the RSU#34 will authorize the Board of Directors to expend for **Facilities Maintenance.**

Explanation: *The Facilities Maintenance account includes maintenance of all school buildings, grounds, minor capital renovation/construction projects, insurance, utilities, equipment and supplies.*

Board of School Directors Recommend: **$2,186,241.82**

Article XI: To see what sum the RSU#34 will authorize the Board of Directors to expend for **Debt Service and Other Commitments.**

Explanation: *The Debt Service account includes expenses for the State approved / State reimbursed capital debt obligation at Old Town Elementary School.*

State Approved/Reimbursed OTES Debt -	*$562,163.80*
OTHS Art & Science Wing -	*$377,995.37*

Board of School Directors Recommend: **$940,159.17**

Article XII: To see what sum the RSU#34 will authorize the Board of Directors to expend for **All Other Expenditures.**

Explanation: *The All Other Expenditures account includes the local expense for food service operations.*

Board of School Directors Recommend: **$100,000.00**

Article XIII: To see what sum the RSU#34 will appropriate for that portion of the cost of funding public education from pre-kindergarten to grade 12 as described in the Essential Programs and Services Funding Act and to see what sum the RSU#34

will raise and assess as each municipality's contribution to that portion of the cost of funding public education from pre-kindergarten to grade 12 as described in the Essential Programs and Services Funding Act in accordance with the Maine Revised Statutes, Title 20-A, Section 15688 (Recommended amount set forth below):

Town	E.P.S. Allocation	E.P.S. Amount Raised/RSU Assessment
Alton	$ 1,272,920.19	$ 344,005.34
Bradley	$ 2,441,680.07	$ 921,352.00
Old Town	$10,374,876.91	$ 4,162,408.00
Total	$14,089,477.17	$ 5,427,765.34

Explanation: *The Regional School Unit #34's contribution to the total cost of funding public education from pre-kindergarten to grade 12 as described in the Essential Programs and Services Funding Act is the amount of money determined by State law to be the minimum amount that the RSU#34 must raise and assess in order to receive the full amount of State dollars.*

Article XIV: Shall the RSU#34 raise and appropriate **$ 377,995.37** for the annual payments on debt service previously approved by the legislative body for non-state funded school construction projects, or non-state funded portions of school construction projects in addition to the funds appropriated as the local share of the school administrative unit's contribution to the total cost of funding public education from pre-kindergarten to grade 12.

Explanation: *Non-State funded debt service is the amount of money needed for the annual payments on long term debt for major capital renovation/construction projects that are not approved for State subsidy. The bonding of this long-term debt was previously approved by the voters.*

2011 OTHS Art & Science addition
Principal: $331,568.62
Interest: $ 46,426.75

Board of School Directors Recommend: $ 377,995.37

Article XV: Shall the RSU#34 raise and appropriate $100,000 in additional local funds in support of the food service program.

Board of School Directors Recommend: $ 100,000.00

Article XVI: Shall the RSU#34 raise and appropriate **$ 1,552,255.04** in additional local funds for school purposes under the Maine Revised Statutes, Title 20-A, §15671-A (4), which exceeds the State's Essential Programs and Services allocation model by $ 1,240,108.79 as required to fund the budget recommended by the School Directors?

Explanation: *The additional local funds are those locally raised funds over and above the RSU#34's local contribution to the total cost of funding public education from pre-kindergarten to grade 12 as described in the Essential Programs and Services Funding Act and local amounts raised for the annual payment of non-State funded*

debt service that will help achieve the RSU#34's budget for educational programs.

Board of School Directors Recommend: $ 1,552,255.04 for additional local funds and gives the following reasons for exceeding the State's Essential Programs and Services funding model by $1,240,108.79: the additional local funds are those locally raised funds over and above the school administrative unit's local contribution to the total cost of funding public education from pre-kindergarten to grade 12 as described in the Essential Programs and Services Funding Act and local amounts raised for the annual payment on non-state funded debt service that will help achieve the Regional School Unit #34 budget for educational programs.

Article XVII: **Total Budget:** To see what sum the RSU#34 will authorize the Board of Directors to expend for the fiscal year beginning July 1, 2015 and ending June 30, 2016, from the Regional School Unit #34's contribution to the total cost of funding public education from pre-kindergarten to grade 12 as described in the Essential Programs and Services Funding Act, additional local funds for educational purposes under the Maine Revised Statutes, Title 20-A, Section 15690, the RSU#34's share of the Vocational Region Programs, unexpended balances, tuition receipts, State subsidy, and other receipts for the support of schools.

Explanation: This is a summary Article. The amount recommended is the gross budget of the RSU#34. This Article does not provide money unless the other Articles are approved.

Board of School Directors Recommend: $18,465,616.42

Article XVIII: To see if RSU #34 will appropriate $59,383.58 for adult education and raise $40,883.58 as the local share; with authorization to expend any additional, incidental, or miscellaneous receipts in the interest and for the well-being of the adult education program.

Explanation: *The Adult Education account includes expenses to operate the local Adult Education Program and the assessment for the Regional Vocational Adult Education Program at United Technologies Center.*

Local Adult Education Program	*$54,985.71*
Regional Vocational Adult Education Program (UTC)	*$4,397.87*

Board of School Directors Recommend: $59,383.58

Article XIX: Shall the **Regional Vocational Operating Budget** as approved by the Cooperative Board for the year July 1, 2015 through June 30, 2016 be approved in the amount of **$2,232,777.00**

Explanation: Approval of the total Regional Vocational Operating Budget by member units is required. Regional School Unit #34's assessment is included in Article # IV.

This article is not subject to amendment from the floor. It may be either accepted or rejected by the voters.

Board of School Directors Recommend a "YES" vote.

Article XX: Shall the **Regional Vocational Adult Education Budget** as approved by the Cooperative Board for the year July 1, 2015 through June 30, 2016 be approved in the amount of **$207,586.60**

Explanation: Approval of the total Regional Vocational Adult Education Operating Budget by member units is required. Regional School Unit #34's assessment is included in Article # XIII. This article is not subject to amendment from the floor. It may be either accepted or rejected by the voters.

Board of School Directors Recommend a "YES" vote.

Article XXI: In addition to amounts approved in the preceding articles, shall the RSU#34 Board of Directors be authorized to expend other sums as may be received from federal or state grants or programs or other sources during the fiscal year for school purposes, provided that such grants, programs or other sources do not require the expenditure of other funds not previously appropriated?

Board of School Directors Recommend a "YES" vote.

Article XXII: Shall the Board of Directors/School Committee be authorized to transfer $600,000.00 from unallocated balances at the end of the 2014-2015 fiscal year to the School Capital Reserve Fund and to expend up to $600,000.00 from said reserve fund for the purpose of completion of the following projects:

Project	Estimated Cost
OTHS Locker Rooms	$ 375,000.00
OTHS Bathrooms	$ 160,000.00
OTHS Paving	$ 13,000.00
OTES Paving	$ 52,000.00
	$ 600,000.00

Board of School Directors Recommend a "YES" vote.

Article XXIII: Shall the Board of Directors/School Committee be authorized to reduce the amount raised and assessed as each municipality's contribution to the total cost of funding public education from kindergarten to grade 12 as described in the Essential Programs and Services Funding Act in accordance with the Maine Revised Statutes, Title 20-A, section 15688 to the extent of any unanticipated increase in the adjusted state contribution under the Essential Programs and Services funding model.

Board of School Directors Recommend a "YES" vote.

Given under our hands this 13th **day** of **May 2015**

BOARD OF DIRECTORS
OF
MAINE REGIONAL SCHOOL UNIT NO.34

Donna Conary

David Wollstadt

James Dill

Laura Sanborn

Roxane Dubay

Mildred Cannon

Howard Jack

Lee Jackson

Stephanie Phillips