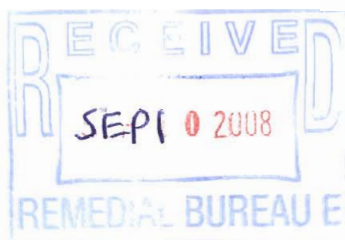


September 3, 2008

Young S. Chang
 USEPA – Region 2
 290 Broadway
 New York, NY 10007-1866



Re: Sidney Landfill
 Monitoring Well Decommissioning
 Work Summary

Dear Young:

The following provides a summary of the work efforts completed for the ground water monitoring well decommissioning program at the Sidney Landfill.

A total of 16 monitoring wells were abandoned at the Sidney Landfill between May 19 and May 30, 2008 consistent with the work plan provided in a our dated April 4, 2008 and USEPA's comments to the work plan both of which are provided in Attachment 1. The table below provides a summary of the decommissioned wells. Well abandonment logs are provided in Attachment 2. Figures 1 and 2 depict the locations of the ground water monitoring wells at the site prior and subsequent to well decommissioning, respectively.

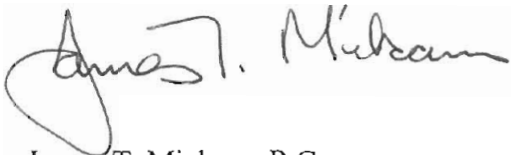
**Sidney Landfill
 Summary of Decommissioned Monitoring Wells**

WELL ID	Well Depth (ft)	Well Diameter (in)	Inside Casing Material
UNK-3	43	4.0	SS
B2	44	2.0	PVC
B3	42	2.0	PVC
B4	73	2.0	PVC
B5	63	2.0	PVC
B6	52	2.0	PVC
B7	73	2.0	PVC
MW-4S	38	2.0	SS
MW-4D	76	4.0	SS
MW-5S	55	4.0	SS
MW-5D	83	4.0	SS
MW-20	53	4.0	SS
MW-21	41	2.0	SS
MW-22	90	4.0	SS
MW-24	150	4.0	SS
MW-25	161	4.0	SS

Well depth was confirmed with a weighted tape prior to well abandonment. Grout slurry was then prepared using Portland cement, bentonite powder and potable water from the Village of Sidney. The grout was pumped into the well via a PVC tremie pipe installed to the well bottom. The tremie pipe was slowly withdrawn as grout filled the well. An 8.25 inch hollow-stem auger bit was then advanced around the outside of the protective well casing to a depth of approximately 5 feet below ground surface. The well and its protective casing were cut off using an oxygen-acetylene torch a minimum of 3 feet below ground surface. Grout was allowed to cure at least 24-hours, at which time any shrinkage or collapse of the grout column (typically 1 to 2 feet) was noted. If necessary, additional grout was added to completely fill the well. Lastly, a steel plate placed on top of the grouted well. As directed by USEPA in their comments to the work plan, at well B-6, bentonite pellets were used to fill the casing to 3 feet below ground surface. At all locations, the hole at the surface left by the removal of the protective well casing and pad was filled with soil from an off-site source. The disturbed work area was seeded and mulched upon completion.

If any questions arise regarding this information, please do not hesitate to contact us.

Very truly yours,
JTM ASSOCIATES, LLC



James T. Mickam, P.G.
President

Attachments

Cc: R. Galloway – Honeywell
J. Bianchi – Amphenol
S. Waldo – Amphenol
G. Pratt – NYSDEC
J. Kaczor – Earth Tech

FIGURES

FIGURE 1
SIDNEY LANDFILL
ENVIRONMENTAL
MONITORING
PROGRAM



MONITORING WELL
LOCATION MAP
APRIL 2008
PRE - WELL
DECOMMISSIONING
PROGRAM

LEGEND

- ◆ BEDROCK MONITORING WELL
- ◆ MW-4S BEDROCK MONITORING WELL TO BE DECOMMISSIONED
- ◆ GLACIAL TILL MONITORING WELL
- ◆ GAS VENT LOCATION
- SURFACE WATER SAMPLE LOCATION
- RECOVERY WELL
- SPRING
- TREE LINE
- SIDNEY LANDFILL PROPERTY BOUNDARY
- WASTE LIMITS

NOTES:










1. TOPOGRAPHIC SURVEY FROM MALCOLM PIRNIE; JANUARY 1995.
2. ADAPTED FROM MAPS AND ILLUSTRATIONS PREPARED BY HARDING ESE.





MONITORING WELL
LOCATION MAP
JUNE 2008
POST – WELL
DECOMMISSIONING
PROGRAM

LEGEND

-  BEDROCK MONITORING WELL
 GLACIAL TILL MONITORING WELL
 GAS VENT LOCATION
 SURFACE WATER SAMPLE LOCATION
 RECOVERY WELL
 SPRING
 TREE LINE
 SIDNEY LANDFILL PROPERTY BOUNDARY
 WASTE LIMITS

NOTES:

1. TOPOGRAPHIC SURVEY FROM MALCOLM PIRNIE; JANUARY 1995.
2. ADAPTED FROM MAPS AND ILLUSTRATIONS PREPARED BY HARDING ESE.



Attachment 1

April 4, 2008

Young S. Chang
USEPA – Region 2
290 Broadway
New York, NY 10007-1866

Re: Sidney Landfill
Monitoring well decommissioning

Dear Young:

As requested by USEPA, the respondents will decommission several ground water monitoring wells at the Sidney Landfill. This letter defines the specific wells proposed for decommissioning and method of abandonment.

Decommissioning program scope

Throughout its' history, several investigations involving the installation of ground water monitoring wells have been completed at the Sidney Landfill. Presently, 54 ground water monitoring wells exist on and around the site, Of these, 19 are monitored as part of the current USEPA environmental monitoring and New York State Department of Environmental Conservation (NYSDEC) Part 360 ground water monitoring programs.

USEPA has requested that 9 wells be decommissioned. The Respondents propose to decommission a total of 35 ground water monitoring wells or all of those wells not currently in either ground water monitoring program. The attached table summarizes those wells proposed for decommissioning, their general construction (open bedrock hole or screened), diameter and depth. The provided figure depicts their location.

Decommissioning method

The method of well decommissioning will be consistent with the NYSDEC Draft *Groundwater Monitoring Well Decommissioning Procedures*; November 2002.

Available drilling logs indicate all wells proposed for decommissioning are completed in bedrock. At those locations where specific logs are not available (UKN-1, UKN-2 and UKN-3), logs for wells immediately adjacent to these wells indicate that this is also the case for the UKN wells. All wells are constructed with 4 to 6 inch steel casing grouted into bedrock. At a majority of locations, the well is completed as an open bedrock hole. At the "PZ " and "B" series wells, a 2 inch PVC screen and casing assembly is grouted inside the larger diameter steel casing.

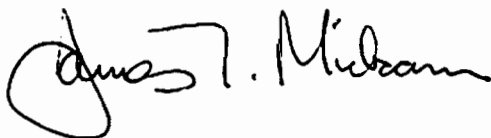
All wells will be decommissioned by a combination over-drilling and grouting in-place as described in sections 2.2 and 2.3 in the guidance document, respectively. The well will first be tremie grouted in-place to 5 feet below grade. The grout mixture will be consistent with that specified in section 9.1.1 of the guidance. Following a 12-hour grout curing period, the grout column inside the well casing will be inspected and additional grout added if necessary to bring it to 5 feet below grade. After complete grouting, the steel casing will be over-drilled to 5 feet below grade using hollow-stem augers. The casing will then be cut off using a long handled torch and removed. Any remaining well surface pad will also be removed. A steel marker plate will be embedded and the soil over the well location restored and seeded as per section 10 of the guidance.

Schedule

Our contractor, Parratt-Wolff, is scheduled to mobilize and begin work Monday, May 5, 2008. However, this schedule may be revised depending on field conditions as wheeled vehicle access is required to perform the work.

If any questions arise regarding this information, please do not hesitate to contact us.

Very truly yours,
JTM ASSOCIATES, LLC



James T. Mickam, P.G.
President

Attachments

- Table of wells proposed for decommissioning
- Well Location Map

Cc: R. Galloway – Honeywell
J. Bianchi – Amphenol
S. Waldo – Amphenol
G. Pratt – NYSDEC
J. Kaczor – Earth Tech

Attachments

- **Table of Monitoring Wells Proposed for Decommissioning**
- **Monitoring Well Location Map**

Sidney Landfill
Monitoring Wells Proposed for Decommissioning

WELL ID	Open Hole / Screened	DIAM (in)	DEPTH
MW-2S	O	4	70
MW-2DR	S	2	154
MW-2SR	O	4	71
MW-2M	O	4	85
MW-4S	O	4	36
MW-4D	O	4	78
MW-5S	O	4	55
MW-5D	O	4	83
MW-7S	O	4	21
MW-7D	O	4	41
MW-11S	O	4	26
MW-11D	O	4	50
MW-15S	O	4	72
MW-15SR	O	4	74
MW-20	O	4	54
MW-21	O	4	41
MW-22	O	4	90
MW-24	O	4	150
MW-25	O	4	160
PZ-1	S	2	70
PZ-2	S	2	59
PZ-3	S	2	75
PZ-4	S	2	70
EW-1	S	6	80
EW-1D	S	6	120
B-1	O	2	43
B-2	O	2	44
B-3	O	2	43
B-4	O	2	77
B-5	O	2	63
B-6	O	2	52
B-7	O	2	74
MW-UK1 (near 13S)	?	4	77
MW-UK2 (near 16S)	?	4	80
MW-UK3 (near 8D)	?	4	43



office

From: <Chang.Young@epamail.epa.gov>
To: "James T. Mickam, P.G." <jmickam@jtmllc.com>
Cc: <Modica.Edward@epamail.epa.gov>; <ghpratt@gw.dec.state.ny.us>; "Kaczor, James" <James.Kaczor@earthtech.com>; "Bianchi, Joseph M." <jbianchi@amphenol-aa.com>; "Galloway, Rich" <rich.galloway@honeywell.com>; "Waldo, Samuel S." <waldo@amphenol.com>
Sent: Tuesday, August 05, 2008 11:45 AM
Subject: Re: Fw: Sidney Landfill Well Decommissioning, wells which are approved vs. not approved and request change in date for decommissioning start.

Jim,

You had recently (7/29/08) responded to my email and stated that the well decommissioning was completed as per the work plan. Please submit via US Mail or e-Mail well decommissioning documentation report/letter by September 5, 2008. Include in the report/letter, summary of activities, list of wells decommissioned, a figure depicting all wells on Sidney Landfill site prior to decommissioning, and a figure depicting remainder of wells on Sidney Landfill site post decommissioning.

Young Chang
 Project Manager
 US EPA Region 2
 290 Broadway, 20th Floor
 New York, NY 10007
 212-637-4253
 212-637-3966 fax

Young
 Chang/R2/USEPA/U
 S

To
 "James T. Mickam, P.G." <jmickam@jtmllc.com>
 04/17/2008 09:26 AM cc

"Kaczor, James" <James.Kaczor@earthtech.com>,
 "Bianchi, Joseph M." <jbianchi@amphenol-aa.com>,
 "Galloway, Rich" <rich.galloway@honeywell.com>,
 "Waldo, Samuel S." <waldo@amphenol.com>,
 ghpratt@gw.dec.state.ny.us,
 Tamara.Raby@earthtech.com, Edward
 Modica/R2/USEPA/US@EPA

Subject
 Re: Fw: Sidney Landfill Well

8/21/2008

Decommissioning, wells which are approved vs. not approved and request change in date for decommissioning start.(Document link: Young Chang)

Thank you.

To recap, May 12 week, quarterly monitoring will start.
May 19th week, well decommission will start as long as quarterly monitoring has been completed.

Following wells are approved for decommissioning:

>> MW-4S, MW-4D
>> MW-5S, MW-5D
>> MW-20,
>> MW-21,
>> MW-22,
>> MW-24,
>> MW-25,
>> B-2 through B-7,
>> and MW-UK3 (near 8D).

And special instruction for decommissioning well B-6 is given below and has been accepted by the PRPs representative.

Thanks.

Young Chang
Project Manager
US EPA Region 2
290 Broadway, 20th Floor
New York, NY 10007
212-637-4253
212-637-3966 fax

"James T.
Mickam, P.G."

<jmickam@jtmlc.com>

To
Young Chang/R2/USEPA/US@EPA
cc

8/21/2008

04/17/2008 09:09 AM "Waldo, Samuel S."
 <waldo@amphenol.com>, "Kaczor, James"
 <James.Kaczor@earthtech.com>,
 "Galloway, Rich"
 <rich.galloway@honeywell.com>,
 "Bianchi, Joseph M."
 <jbianchi@amphenol-aao.com>
 Subject
 Fw: Sidney Landfill Well
 Decommissioning, wells which are
 approved vs. not approved and
 request change in date for
 decommissioning start.

Young,

We can now confirm the May 19 start date.

Jim

----- Original Message -----

From: "James T. Mickam, P.G." <jmickam@jtmlc.com>

To: <Chang.Young@epamail.epa.gov>

Cc: "Pratt, Gerald" <ghpratt@gw.dec.state.ny.us>; "Kaczor, James"

<James.Kaczor@earthtech.com>; "Bianchi, Joseph M."

<jbianchi@amphenol-aao.com>; "Galloway, Rich"

<rich.galloway@honeywell.com>;

"Waldo, Samuel S." <waldo@amphenol.com>;

<Singerman.Joel@epamail.epa.gov>;

<Modica.Edward@epamail.epa.gov>

Sent: Wednesday, April 16, 2008 4:00 PM

Subject: Re: Sidney Landfill Well Decommissioning, wells which are
 approved

vs. not approved and request change in date for decommissioning start.

> Young,

> We are in receipt of EPA's comments re: the proposed monitoring well

> decommissioning at the Sidney Landfill. We accept EPA's revised list
 of

> wells to be closed. Additionally, we will use the alternative
 grouting

> procedure suggested by Earth Tech. We are in the process of
 confirming a

> start date of May 19 (the week after the scheduled 2nd quarter
 monitoring
 > event) with our contractor.
 > Thanks you ,
 > Jim
 > ----- Original Message -----
 > From: <Chang.Young@epamail.epa.gov>
 > To: "James T. Mickam, P.G." <jmickam@jtmlc.com>
 > Cc: "Pratt, Gerald" <ghpratt@gw.dec.state.ny.us>; "Kaczor, James"
 > <James.Kaczor@earthtech.com>; "Bianchi, Joseph M."
 > <jbianchi@amphenol-ao.com>; "Galloway, Rich"
 > <rich.galloway@honeywell.com>;
 > "Waldo, Samuel S." <waldo@amphenol.com>;
 > <Singerman.Joel@epamail.epa.gov>;
 > <Modica.Edward@epamail.epa.gov>
 > Sent: Thursday, April 10, 2008 3:26 PM
 > Subject: Re: Sidney Landfill Well Decommissioning, wells which are
 > approved
 > vs. not approved and request change in date for decommissioning start.
 >
 >
 >> Jim,
 >>
 >> EPA, DEC, and Earth Tech have reviewed the attached letter
 identifying
 >> the wells proposed for decommissioning.
 >>
 >> Following wells are approved for decommissioning:
 >> MW-4S, MW-4D
 >> MW-5S, MW-5D
 >> MW-20,
 >> MW-21,
 >> MW-22,
 >> MW-24,
 >> MW-25,
 >> B-2 through B-7,
 >> and MW-UK3 (near 8D).
 >>
 >> For decommissioning well B-6: Earth Tech wrote and EPA agrees,
 "Wells
 >> MW-3S and MW-3D are topographically located at the same elevation as
 >> well B-6. Although the screened interval of well B-6 is essentially
 the
 >> same as well MW-3S, the wells are located ~25 feet away and
 therefore,
 >> the abandonment of B-6 is not likely to affect the integrity of MW-3S
 >> (nor MW-3D), however a bentonite abandonment procedure should/could
 be
 >> requested to ensure that no effects occur.
 >>
 >> Abandonment procedures, special consideration for B-6:

8/21/2008

>> Potential effects of using a cement/bentonite grout mixture during well abandonment activities includes the risk of grout intrusion into nearby wells, thus making the geochemistry unstable for a short period of time (depending on nature and extent of intrusion). A second potential effect is the sealing of water-bearing fractures in the immediate vicinity of a nearby well, thus causing a decreased well yield. To minimize these risks, bentonite chips can be used rather than cement/bentonite grout. Additional benefits of using bentonite chips is to ensure that highly transmissive fractures with strong vertical gradients do not wash away the cement/bentonite grout prior to it curing, leaving pathways open for vertical movement of site contaminants."

>> EPA requests that well decommissioning commence after the May 12th week quarterly groundwater monitoring has been completed. So please reschedule Parratt-Wolff.

>> All the wells near the former MW-2S "Hotspot" area proposed for decommissioning are denied. EPA has wanted MW-2S area monitoring however it has been mostly dry or had insufficient yield for sampling. EPA wants to maintain these wells for future monitoring purposes. Some of the wells which EPA does not have plans for the future, such as MW-UK1, MW-UK2, B-1, MW-2S, and MW-15S, however we do not want these wells decommissioned due to concerns detailed above, regarding considerations for B-6. We can re-evaluate these wells in the former MW-2S "Hotspot" area during the next 5-year review, after 2009.

>> MW-7S, MW-7D, MW-11S, and MW-11D should not be decommissioned as these are fringe wells located close to residences which are not contaminated. We may want periodic monitoring in the future to confirm that it is still not contaminated.

>> Note that on figure 1, there were two MW-UK1. The second MW-UK1 near MW-8S should be changed on the figure to MW-UK3, according to the table.

>> Please respond to this email to confirm receipt and understanding. And provide us with the new schedule. Thanks.

>>
>> Young Chang
>> Project Manager
>> US EPA Region 2
>> 290 Broadway, 20th Floor
>> New York, NY 10007
>> 212-637-4253
>> 212-637-3966 fax
>>
>>
>>
>>
>> "James T.
>> Mickam, P.G."
>> <jmickam@jtmlc.
To
>> com> Young Chang/R2/USEPA/US@EPA
>>
cc
>> 04/06/2008 02:20 "Waldo, Samuel S."
>> PM <waldo@amphenol.com>, "Pratt,
>> Gerald"
>> <ghpratt@gw.dec.state.ny.us>,
>> "Kaczor, James"
>> <James.Kaczor@earthtech.com>,
>> "Galloway, Rich"
>> <rich.galloway@honeywell.com>,
>> "Bianchi, Joseph M."
>> <jbianchi@amphenol-aao.com>
>>
Subject
>> Sidney Landfill Well
>> Decommissioning
>>
>>
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>>
>>
>>
>> Young,
>> Attached please find the proposed plan for monitoring well
>> decommissioning at the Sidney Landfill. We are hopeful that the
field
>> conditions allow the program to begin on Monday, May 5th.
>> Regards,
>> Jim
>>

8/21/2008

>>

>> James T. Mickam, PG

>> JTM Associates, LLC

>> 290 Elwood Davis Road; Ste. 290

>> Liverpool, NY 13088

>> P 315.641.1216

>> jmickam@jtmlc.com[attachment "Sidney Well Decommiss Plan.pdf"
deleted

>> by Young Chang/R2/USEPA/US]

>>

>

Attachment 2



**5879 Fisher Road
East Syracuse, NY 13057**

SHEET 1 OF 1

[illegible]



5879 Fisher Road
East Syracuse, NY 13057

SHEET 1 OF 1

[illegible]



**5879 Fisher Road
East Syracuse, NY 13057**

[illegible]



**5879 Fisher Road
East Syracuse, NY 13057**

SHEET 1 OF 1

[illegible]

