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RESPONSES TO COMMENTS OHIO EPA COMMENTS OF MARCH 6, 1992

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COMMENTS
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Responses to Comments
Ohio EPA Comments of March 6, 1992

Comment #1:

Comment:
The inlets from the force main, along with the 20-inch gravity line to MH 176B should be lowered to match the flow line of the 24-inch outlet pipe if possible. Flow channels for each inlet should be provided. This manhole may need to be made larger to accommodate all the flows tributary to it and allow all inlet pipes to be located on the bottom of the manhole.

Response:
The force main was raised to dissipate the energy from the pumped effluent to gravity effluent at Manhole 176B and to provide a high point where air released from the force main can occur in a controlled condition. The 20-inch gravity line from Manhole No. 176A was purposely raised to prevent backflow in the line as a result of the force main operation.

Action:
No change to drawings and specifications is required.

Comment #2:

Comment:
From a practical point of view, it does not seem logical to have a 20-inch gravity line, a 24-inch force main, and a future 24-inch force main all feeding into a manhole with only a 24-inch outlet. Please elaborate on this arrangement.

Response:
The 20-inch gravity line from new Manhole 176A to 176B will divert existing effluent flow from the existing outfall line to the new outfall line. The line was made a 20-inch main (existing line is 16-inch) for convenience to minimize the number of pipe sizes on the project. Future flow in the existing 16-inch line will be decreased significantly when the Advanced Waste Treatment (AWWT) project is constructed. At that time, much of the flow in the existing 16-inch line will be diverted to the AWWT for treatment. The AWWT will subsequently discharge this flow to the new 24-inch force main. When the Aeration Facility (included in future construction package) is online, the flow in the 24-inch force main will be routed to the Aeration Facility and subsequently discharge by gravity into the 24-inch gravity line. Under normal operating conditions, no flow will occur in the 24-inch force main downstream of the Aeration Facility. The 24-inch outfall line was designed for the future projected flow plus a factor of safety (total 8000 gallons per minute).

Action:
No change to drawings and specifications is required.

Comment #3:

Comment:
It seems that MH 176B could be moved to allow for better alignment of the 20-inch sewer inlet to it.

Response:
Agree

Action:
This change will be incorporated into a revision to the drawings.

Comment #4:

Comment:
Are air relief valves to be provided at high points in the force main?

Response:
The only high points on the force main in this construction package are at the discharge to Manhole 176B and at the Aeration Facility. Air release from these two points will be inherent as discussed in comment response No. 1. One high point will exist in the subsequent well field bid package to be issued later. An air release valve will be provided in that package.

Action:
No charge to drawings and specifications is required.

Comment #5:

Comment:
On pages C3 and C8 there is a 60-inch pipe shown running from the plant area, under the IAWW[T] treatment trailers, between the SWRBs and then discharges at a headwall structure just outside the fence line. We believe this 60-inch line originates from MH 34 which is supposed to discharge to the SWRBs; please elaborate on this arrangement.

Response:
Prior to the construction of the SWRB, the 60-inch line carried the MH 34 discharge to Paddy's Run. The stormwater is now diverted to the SWRB via the SWRB diversion structure. The 60-inch line is plugged at the south end of the diversion structure and the section of the 60-inch line downstream of the SWRB diversion structure is abandoned in place.

Action:
No change to drawings and specifications is required.